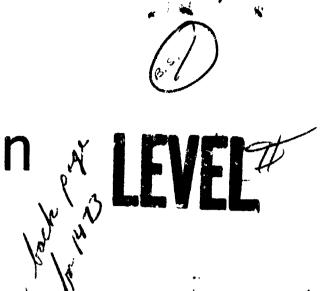
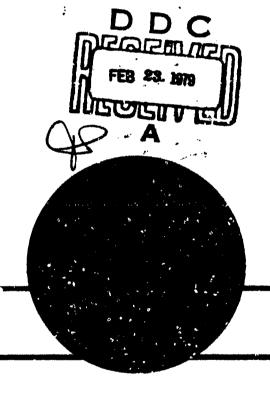
# Maritime Maritime Information Sources: A Guide to Current Statistical Data

**Statistical Data** 



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Maritime Transportation Research Board

Commission on Sociotechnical Systems

AFTER THE GUIDE WENT TO PRESS, SEVERAL CHANGES IN DOCUMENT AVAILABILITY WERE BROUGHT TO OUR ATTENTION.

1. Regarding the availability of item number 31-002, members of the U. S. Naval Institute may still obtain it through the Institute. However, nonmembers should order the document directly from the publisher.

BERNARD AND GRAEFE VERLAG HUBERTUSSTRASSE 5 FOSTFACH 38 01 80 8000 MUNCHEN, GERMANY

2. FLEET NATA SERVICE, a company that is the source of several documents, has moved its offices. The new address is

FLEET DATA SERVICE 6362 WINDSWEPT, SUITE 220 HOUSTON, TX 77057

3. Materials from LLQYD'S REGISTER may also be obtained from the U.S. address:

LLOYD'S REGISTER OF SHIPPING 17 BATTERY PLACE NEW YORK, NY 19004

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### MARITIME INFORMATION SOURCES:

A Guide to Current Statistical Data

Compiled by
Mary C. Hamrick
for the
Maritime Information Committee
of the
Maritime Transportation Research Board
Commission on Sociotechnical Systems
National Research Council

NATIONAL ACADEMY OF SCIENCES
December 1978

### NOTICE

The project that is the subject of this report was approved by the Governing Board of the National Research Council, whose members are drawn from the Councils of the National Academy of Sciences, the National Academy of Engineering, and the Institute of Medicine. The members of the committee responsible for the report were chosen for their special competences and with regard for appropriate balance.

This report has been reviewed by a group other than the authors according to procedures approved by a Report Review Committee consisting of members of the National Academy of Sciences, the National Academy of Engineering, and the Institute of Medicine.

\* \* \* \* \*

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Printed in the United States of America

### **FOREWORD**

This guide to maritime data was developed for the Maritime Transportation Research Board's Maritime Information Committee. The material was gathered as background for the current work of the Committee and is published here in a separate volume because the information is believed to be valuable as an independent reference source.

The material in this volume represents a survey of information sources in the public domain. No attempt is made to assess the accuracy or value of the information, nor is the listing of any commercial supplier an endorsement of that supplier by the Committee, the Board, or the National Academy of Sciences.

Robert Taggart

Chairman

Maritime Information

Committee

R. R. O'Neill

Chairman

Maritime Transportation

Research Board

Washington, D.C. December 1978 BITE WHITE SECTION COMES

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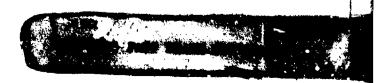
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### GENERAL INFORMATION

This duide includes abstracts of government and privately maintained data bases and publications containing statistical data related to maritime transportation. With a few exceptions, the publications abstracted are periodically reissued or updated. Some organizations that collect data but issue no statistical publications may make them available on request. A listing of some of these organizations has also been provided.

The Quide is intended to assist the user in identifying data sources. Inclusion does not imply endorsement of the validity of the data nor is it an attempt to solicit customers for the organizations identified. (conf or p. Vic) ---

Prices for publications and costs for use of data systems have not been included because they tend to fluctuate. The user is warned that, in some cases, the cost of obtaining data from sources included in this guide may be prohibitively high for individuals or organizations with limited resources.

The tear-sheet has been provided for corrections to entries, addition of sources, or general remarks. All suggestions for improving the directory's content and structure are welcome. Depending on user response, an amended edition or supplement may be published in a more accessible format in 1979.

### A NOTE ON RESTRICTED DATA

Data restrictions are primarily relevant to government agencies (the Maritime Administration, U.S. Coast Guard, and U.S. Army Corps of Engineers, for example), independent commissions (the Interstate Commerce Commission and Federal Maritime Commission), and to some non-governmental organizations (labor unions and trade associations). Concerning government agencies and independent commissions, the user may encounter different standards of restriction at different agencies, but all are governed generally by guidelines set forth in the Freedom of Information Act. No agency will disclose the identity of the information supplier, data that would allow identification of an individual shipper or carrier operating in a particular area or transporting a particular commodity, or any information that would cause harm in any way to the individual or organization to which the data pertain. In some cases, a written request for data is required or preferred. These requirements have been indicated in the abstract.

### ORGANIZATION OF THE GUIDE

> The fuide is divided into fourteen broad subject areas:

- 01 Ports and Terminals,
- 10 Maritime Economics
- 20 Commercial Vessel Construction and Repair,
- 21 Commercial Vessel Characteristics,
- 22 Commercial Vessel Movements, a. d
- 23 Commercial Vessel Casualties,
- 30 Government Vessel Construction and Repair and
- 31 Government Vessel Characteristics;
- 40 Cargo Movements and Trade Routes;
- 50 Labor and Management -- General Employment;
- 51 Labor and Management-Unions and Trade Associations, and
- 52 Labor and Management-Personnel Casualties
- 53 Government Personnel, and
- 60 Inland Waterways.

Entries within each subject area are listed non-alphabetically. Each entry bears a number that designates its subject area and its order within that subject area. Because some last-minute additions and deletions were made, the entries are not necessarily numbered consecutively, but are arranged in numerical sequence, beginning with 01-001. Sources containing information relevant to more than one subject area are listed with their full entry only once. At the end of each subject section, those sources that are abstracted elsewhere but applicable to that section are listed by title with their subject area and order numbers. The complete entry can then be located in another section of the Guide.

### **EXAMPLE OF AN ABSTRACT**

- 1\_\_\_\_01-018
- 2 \_\_\_ AN ANALYSIS OF PORTS FOR NATIONAL DEFENSE U.S. ARMY UNIT DEPLOYMENTS (ANALYSIS)
- 3 This study is the first to be produced for the Ports for National Defense Program that was established by the MTMC in 1977. It includes specific evaluations of the commercial ports' capabilities to support early deployment of U.S. Army tactical units during a contingency. Port areas that are analyzed include Baltimore, Beaumont, Boston, Charleston, Galveston, Houston, Jacksonville, Mobile, New Orleans, New York, Norfolk, Philadelphia, San Franci co and Oakland, Savannah, Seattle and Tacoma, and Wilmington, N.C. Military ocean terminals in New York and San Francisco/Oakland are also evaluated. Data include number and characteristics of berths, ship mixes, ramp designs, cargo handling apparatus, rail and highway access, and general information on port facilities. A study similar to this is to be conducted every 5 years to provide updated information on port facilities and movement requirements.
- 4\_\_\_\_ J.M. Birbidge and W.S. Weaver, Project Officers
  5\_\_\_ Military Traffic Management Command (MTMC)
  Transportation Engineering Agency
  Newport News, Virginia 23606
- 6\_\_\_\_281 pp. June 1978

Order from:

- 7 Military Traffic Management Command Newport News, Virginia 23606
- 8\_\_\_\_ MTMC Report TE 77-59

ITEM 1 is the afore-mentioned subject area/order number. (See ORGANIZATION OF THE GUIDE.)

ITEM 2 is the title of the publication, data base, or organization. In cases where the source provides an analysis of the data it presents, or where the data have been used to develop a forecast, the words ANALYSIS and/or FORECAST appear in parentheses after the title.

ITEM 3 is the abstract. It provides a narrative summary of the types of statistics contained in a publication or of the elements in a data base. Some entries include a supplementary note that gives, for example, a phone number to call for further information or information on a previous edition.

ITEM 4 is the name of the individual author(s) of a publication.

ITEM 5 is the name and address of the publisher or corporate author of a publication; or the name and address of the agency or firm operating a data base or otherwise providing data to the public.

ITEM 6 includes the number of pages, volume number where applicable, and date of publication for non-recurring publications.

ITEM 7 gives the name and address of the document center, i.e., where to write to obtain a copy of a publication or price and subscription information. Those publications available from the U.S. Government Printing Office are designated GPO. They map be obtained by writing: Superintendent of Documents, U.S. Government Printing Office, Washington, D.C., 20402. The publications with the designation NTIS may be ordered from: National Technical Information Service, 5285 Port Royal Road, Springfield, Virginia, 22161.

ITEM 8 is the published report number of a publication, if any.

### MARITIME RESUARCH INFORMATION SERVICE

Persons interested in a reference source for proposed, ongoing, and completed research and development projects and technical reports or journal articles in the maritime field may contact the Maritime Research Information Service. The MRIS system is designed to provide coordinated and comprehensive information on what has been and is being done, by whom, and where for those engaged in the maritime industry and for development program planners and administrators in the mransportation field and in related fields of study. The MRIS system is divided into 24 subject areas such as ship design, building, operations, cargo handling, corrosion, lubrication and fuels, navigation, pollution, and ports and waterways. Financial support for the operation of this service within the Transportation Research Board of the National Academy of Sciences is provided by the Maritime Administration, U.S. Department of Commerce

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MAIL ADDRESS:

Transportation Research Board National Academy of Sciences 2101 Constitution Avenue, NW Wastington, D.C. 20418

### **ABBREVIATIONS**

ABS American Bureau of Shipping American Petroleum Institute API British horsepower BHP CDS Construction differential subsidy COE Corps of Engineers DWT Deadweight tons **ERDA** Energy Research and Development Administration EXIT Export Information Tabulation GRT Gross registered tons Gross tons GT**GVWR** Gross vehicle weight rating HP Horsepower IMCO Intergovernmental Maritime Consultative Organization IRCS International Radio Call Sign ISIS Import Special Information Service LASH Lighter aboard ship LDT Light displacement tons LG Liquefied gas LNG Liquefied natural gas LOA Length overall LPG Liquefied petroleum gas NATO North Atlantic Treaty Organization NRT Net registered tons OB0 Ore/bulk/oil ship ocs Outer continental shelf ODS Operating differential subsidy OPEC Organization of Petroleum Exporting Countries Reefer Refrigerated containership RO/RO Roll-on/Roll-off SAR Search and rescue SITC Standard International Trade Classification SMSA Standard Metropolitan Statistical Area STCC Standard Commodity Classification TAPS Trans-Alaska Pipeline System Twenty-foot Equivalent Unit TEU Merchant Marine Act of 1936, Amended 1970 United Nations Conference on Trade and Development Title XI UNCTAD United States Coast Guard USCG WCSC Waterborne Commerce Statistics Center

## 01 Ports and Terminals

01-001 WORLD PORT INDEX

This annual publication contains the location, characteristics, facilities, and available services of ports and shipping terminals throughout the world. Applicable charts and sailing directions are given for each port listed. The ports are grouped by country and locality and are listed in geographic sequence following the coastal trend. Ports of off-lying islands and river ports are included. Particulars of each port described include size, type of harbor, shelter afforded, entrance restrictions, overhead limitation, depths, tide, maximum size vessel, turning area, U.S. government representative, pilotage, tugs, quarantine, medical facilities, communications, garbage disposal, services, suppliers, repairs, drydocks, and marine railways.

U.S. Naval Oceanographic Office

Order from: U.S. Defense Mapping Agency Hydrographic/Topographic Center 6500 Brooks Lane Washington, D.C. 20315

01-002 DIRECTORY OF RIVER BARGE SHIPPING POINTS

The directory has been compiled with information provided by members of the Association. It lists public and private terminals on all U.S. rivers and waterways, including the East Coast. The grain terminals are grouped under each river and their location indicated by river mile, city, state, and zip code. The name and telephone number of each terminal operator is included.

For information, call (202) 783-2024.

National Grain and Feed Association P.O. Box 28328 Washington, D.C. 20005

Order from: National Grain and Feed Association P.O. Box 28328 Washington, D.C. 20005 01-003 WORLD WIDE SHIPPING GUIDE

In two volumes, the Guide offers information on steamship lines and agents, freight forwarders and customs brokers, stevedores, terminal operators, port authorities and government agencies, airline and railroad interface, and charterers and agents services for over 1500 world ports. The listings include name, address, phone number, type of service, telex, cable and names of key executives of over 45,000 firms servicing the importexport market. There is also a section on international banking firms and currency exchange information.

World Wide Shipping Guide, Incorporated 77 Moehring Drive Blauvelt, New York 10913

Order from:
World Wide Shipping Guide, Incorporated
77 Moehring Drive
Blauvelt, New York 10913

01-004 ECONOMIC IMPACT OF THE U.S. PORT INDUSTRY: AN INPUT-OUTPUT ANALYSIS OF WATERBORNE TRANSPORTATION (ANALYSIS)

This study was prepared for the Maritime Administration. includes the following statistics for 1970: expenditures for port services by final demand sectors; direct input requirements of the U.S. port industry by 20 leading supplying industries; direct and indirect personal and business income generated by the U.S. port industry by the 10 leading supplying industries; direct and indirect sales impact of private port investment in the 20 leading supplying industries; direct and indirect impact of government port expenditures on the 20 leading supplying industries; leading waterborne export industries in the U.S.; ranking of waterborne imports by consuming industry in the U.S.; increase in the port industry's output resulting from 10 percent additional sales of other key industries; interindustry transactions in the U.S. economy; direct requirements per dollar of output; and total requirements per dollar of delivery to final demand.

Port Authority of New York and New Jersey One World Trade Center New York, New York 10048

Order from: GPO

01-005 GUIDE TO PORT ENTRY

Data provided for all the world's ports include the following: pilotage, anchorage, restrictions at specific ports, maximum size of vessel that the port is equipped to handle, health regulations, tugs, berthing, radio, radar, bridges and clearances, tanker facilities, fuel, repair facilities, drydocks, services, and port regulations and authorities.

C. L. Pielow, Editor Shipping Guides, Limited 75 Bell Street Reigate, Surrey England

Order from:
Shipping Guides, Limited
75 Bell Street
Reigate, Surrey
England

01-006 TERMINAL FACILITIES OF U.S. AND CANADIAN PORTS

Each listing provides a summary of the amount and types of storage available at the port, the types and capacities of lift equipment, landside transportation services, and a roster of shiplines offering regularly scheduled service from the port. In addition, the port's listing gives the sources from which rate and other information may be obtained.

For information, call (800) 528-7863, X252.

Traffic World 1435 G Street, NW Suite 815 Washington, D.C. 20005

Order from: Traffic World 1435 G Street, NW Suite 815 Washington, D.C. 20005

Also available from: University Microfilms, Incorporated 300 North Zeeb Road Ann Arbor, Michigan 48106 01-007 PORT FACILITIES INVENTORY (PFI)

Elements in this data base include the port ID, the U.S. Army Corps of Engineers port code, terminal codes, date, the port name, the limiting channel depth, the terminal latitude and longitude, the terminal condition and classification codes, the owner's name and address, operator and pier data, general cargo/container facilities available, and general remarks.

For information, call (202) 377-4123.

Maritime Administration Office of Port and Intermodal Development 14th and E Streets, NW Washington, D.C. 20230

01-008
PORTS OF THE WORLD, A GUIDE TO CARGO LOSS CONTROL (ANALYSIS)

The Guide provides data on significant changes in various ports and the cargo transportation industry in the past few years. It includes information on ports and port conditions and facilities. Specifically, the contents are broken down by country/region: U.S., Canada, Central America, the Caribbean Islands, South America, Europe, Africa, Near and Middle East. Far East, and Australasia. The ports in each region are listed with the facilities available at each, the cargo handling equipment on hand, and an assessment of whether or not the facilities and equipment are adequate for the port's traffic. It also provides climate information where it is a factor and the pilferage rate/security facilities. Section II gives data on the principal causes of losses for the years 1951-1973; a breakdown of preventable losses, 1969-1973; data on different types of containerized shipping; dimensions and capacities of intermodal containers; and dimensions and capacities of dry cargo lighters/barges.

This the tenth edition.

Insurance Company of North America 1600 Arch Street Philadelphia, Pennsylvania 19101 73 pp. 1977

Order from: Insurance Company of North America 1600 Arch Street Philadelphia, Pennsylvania 19101 01-009

MID-AMERICA PORTS STUDY (ANALYSIS)

This study, underway by the Maritime Administration, covers inland ports in seventeen different states. The Port Facilities Inventory (PFI) data system is being used to coordinate the study, and information obtained during the study will be used to update the PFI. Types of data collected include general port information; berths and piers (number, dimensions, types of cargo handled and vessels served); storage and handling equipment; location; physical characteristics; owner/operator; and modal access. The information is available through a number of programs for selected information retrieval and reporting. Currently, no report has been published. Interested persons may obtain the data from the Maritime Administration but will be obligated to provide a valid reason for requesting them.

For information, call (202) 377-4123.

Maritime Administration, Office of Port and Intermodal Development 14th and E Streets, NW Washington, D.C. 20230

01-010

U.S. PORTS' FOREIGN TRADE JANUARY TO DECEMBER (YEAR)

This annual publication appears in January of each year. The data it contains are for the year 2 years prior to the year in which it is published, i.e., the January 1978 report includes data for the calendar year 1976. The statistics presented are individual U.S. port tonnage and dollar value of cargo totals grouped by port range and type of cargo; a summary of tonnage and dollar value of cargo totals by port range and type of cargo; individual U.S. port tonnage totals computed against composite geographical areas and cargo category totals; a summary listing of the top four U.S. ports for each major geographical area and cargo category; and a breakdown of import and export tonnage value.

For information, call (202) 377-4123.

Maritime Administration Office of Port and Intermodal Development 14th and E Streets, NW Washington, D.C. 20230

Order from: GPO

01-011

DIGEST OF PORT STATISTICS

Although information in the Digest pertains primerily to U.K. ports, there is data relevant to U.S. shipping. For example, the analysis of unitized traffic is broken down into sections by country of origin, thus giving statistics on the volume of container and roll-on traffic between the U.S. and the U.K. There is also an analysis of port traffic by port, overseas trading areas, and commodity type based on HM Customs figures.

National Ports Council Commonwealth House, 1-19 New Oxford Street London WX1A 1DZ, England

Order from: National Ports Council Commonwealth House, 1-19 New Oxford Street London WX1A 1DZ, England

01-012 AAPA ANNUAL HANDBOOK

The Handbook is available at no charge from the AAPA office. It includes a listing of U.S. public and private ports and ports authorities with the name of the port director, address, and phone number. Anyone interested in obtaining information on an individual port is advised to secure a copy of this handbook and to contact the port offices concerning their available data or publications. For example, the Port of San Francisco publishes an annual ocean shipping handbook; the Port of Portland and the Port Authority of New York and New Jersey both prepare and distribute numerous reports on trade through the ports, ship schedules, and facilities and services available at the ports.

For information, call (202) 331-1263.

American Association of Port Authorities (AAPA) 1612 K Street, NW Washington, D.C. 20006

01-013 PORT DUES, CHARGES, AND ACCOMMODATIONS

Revised each year, this guide is divided into geographical areas and provides detailed information on the ports of the world. Data on each port includes the annual amounts of imports and exports that enter or clear the port, accommodations, equipment for cargo handling available at the port, developments pending, dues and charges levied by the port authorities, approach information, and other general items.

F. S. Campbell, Editor George Philip and Son, Limited 12-14 Long Acre London WC2E 9LP, England

Order from: George Philip and Son, Limited 12-14 Long Acre London WC2E 9LP, England

01-014 PORT PERFORMANCE INDEX (PPI) (ANALYSIS)

The Index itself is the tons of cargo handled per hour of total ship turnaround time. This publication is prefaced with a list of participating ports, listed alphabetically by world sectors which are defined by a diagram. There are 4 parts: Part A lists ports according to declining PPI separately within selected groupings of world sectors; Part B gives indices in declining sequence for all ports world wide: Part C precents the relationship between the PPI and the annual throughput of cargo for each port; and Part D shows the graphic relation between the PPI and annual throughput for each case analyzed. All 212 cases analyzed are summarized in a single table, listed in sequence of their port IP codes. The data are based on four basic categories of cargo operations: liquid bulk; dry bulk; containerized, including lift-on/lift-off and roll-on/roll-off; and breakbulk and general cargo. also a composite of all kinds of cargo operations.

C. H. Plamlee, Author Public Works Consultants Port Hueneme, California 93041 110 pp. 1975

Order from: Public Works Consultants Port Hueneme, California 93041 01-018

AN ANALYSIS OF PORTS FOR NATIONAL DEFENSE U.S. ARMY UNIT DEPLOYMENTS (ANALYSIS)

This study is the first to be produced for the Ports for National Defense Program that was established by the MTMC in 1977. It includes specific evaluations of the commercial ports' capabilities to support early deployment of U.S. Army tactical units during a contingency. Port areas that are analyzed include Baltimore, Beaumont, Boston, Charleston, Galveston, Houston, Jacksonville, Mobile, New Orleans, New York, Norfolk, Philadelphia, San Francisco and Oakland, Savannah, Seattle and Tacoma, and Wilmington, N.C. Military ocean terminals in New York and San Francisco/Oakland are also evaluated. Data include number and characteristics of berths, ship mixes, ramp designs, cargo handling apparatus, rail and highway access, and general information on port facilities. A study similar to this is to be conducted every 5 years to provide updated information on port facilities and movement requirements.

J. M. Burbidge and W. S. Weaver, Project Officers Military Traffic Management Command (MTMC) Transportation Engineering Agency Newport News, Virginia 23606 281 pp. June 1978

Order from: Military Traffic Management Command Newport News, Virginia 23606 MTMC Report TE 77-59 01-019
REPORT ON RAIL AND MARINE INTERFACE (ANALYSIS)

The Reports are a continuing series describing and evaluating facilities for transferring freight between ships and railroad cars at individual U.S. ports. Included are an introduction and description of the port area and individual descriptions of rail and marine terminals and transfer procedures. The text statistics contain data on land area, the number and capacity of loading cranes, storage facilities and equipment, and volume and average times for transfers at each terminal. In 1974, for example, reports were produced on the ports of New Orleans, San Francisco, and others. In 1978, the port of Houston was evaluated. New York, Hampton Roads, and Baltimore are among other ports that have been documented.

Maritime Administration, Office of Port and Intermodal Development 14th and E Streets, NW Washington, D.C. 20230

Order from: GPO

01-020

WORLD PORTS/AMERICAN SEAPORT ANNUAL DIRECTORY OF U.S. PORTS

Published annually in December, the Directory lists the names of U.S. ports in alphabetical order, giving the name of the port authority or commission, appropriate contacts for rates and facilities information, sailing schedules, industrial location information, trunk line railroads serving the port, overseas lines serving the port, tug and barge lines serving the port, information regarding the availability of shipping services, trade development offices, and inland transportation services.

The AAPA also publishes an <u>Annual Directory of Ports of Latin</u>
America and the <u>Caribbean each February</u>; and <u>Ports of Canada</u>
In March.

American Association of Port Authorities Editorial and Production Office 21 Pilgrim Road Hingham, Massachusetts 02043

Order from:
AAPA Editorial and Production Office
21 Pilgrim Road
Hingham, Massachusetts 02043

01-021 PORTS OF THE WORLD

For each port listed (there are over 2,000 noted here), this publication provides information on port approaches, water depth, wharf and dock facilities, cargo handling facilities, rail connections, bunkering and repair facilities, pilotage, towage, local and national charges against shippings, plans and recent developments, and traffic figures, with a separate tanker terminal section. The data is presented in geographical sequence with an alphabetical index.

Benn Brothers Limited London, England

Order from: Nichols Publishing Company P. O. Box 96 New York, New York 10024

01-022

WORLD CONTAINER-PORTS SURVEY (FORECAST)

This annual survey includes a list of container ports, alphabetically by the name of the port, with the director's address and a roster of publications available from each port. The data elements are piers (number of container and RO/RO piers, their total lengths and low water depths); cargo volume (the actual volume in TEUs and metric tons for the previous year, an estimate of the volume for the current year and a volume forecast for the following year); and cranes in service (number and type).

For information, call (404) 393-2920.

Communication Channels, Incorporated 6284 Barfield Road Atlanta, Georgia 30328

Order from: Communication Channels, Incorporated 6284 Barfield Road Atlanta, Georgia 30328

Also available from: University Microfilms, Incorporated 300 North Zeeb Road Ann Arbor, Michigan 48106 01-023 WATERWAYS, HARBORS AND COASTAL ENGINEERING

This quarterly publication contains general information for engineers on waterways and harbors. Data are included in each issue on ports and harbors, cargo handling facilities, container systems, barges and tows, and other areas.

For information, call (212) 752-6800.

American Society of Civil Engineers United Engineering Center 345 East 47th Street New York, New York 10017

01-024 PORT SERIES REPORTS (ANALYSIS)

The Port Series Reports give detailed descriptions of all facilities at the principal U.S. coastal and Great Lakes ports. The data are derived from on-site inspections conducted by U.S. Army Corps of Engineers port engineers. There are 45 reports in the series lovering 119 U.S. seaports; the reports are apparted in sequence of obsolescence on an 8-or 9-year cycle. Inland ports presently are not included. Data in each report includes: physical characteristics of a port's waterfront facilities, including information on berthing, crares, transit sheds, grain elevators, warehouses, repair plants, and floating equipment; brief descriptions of supporting facilities, such as type of operation, storage capacities, and operating rates; and port and harbor conditions, covering location and general description, harbor and channel improvements by the U.S. and local interests, tidal ranges and channel depths, amchorages, bridges, tunnels, and weather conditions.

A list of the report titles with their revision dates and sales price (GPO) is available from the order address listed below or by calling (202) 325-7327.

U.S. Army Corps of Engineers Board of Engineers for Rivers and Harbors Fort Belvoir, Virginia 22060

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Board of Engineers for Rivers and Harbors
Kingman Building
Fort Belvoir, Virginia 22060

01-026
THE FUTURE OF ATLANTIC PORTS (ANALYSIS, FORECAST)

The first of the two-part study reviews the past and present capabilities of U.S. Atlantic coast ports and projects the extent to which the ports will successfully meet future requirements. Significant aspects include: a) a review of the demand and supply of U.S. East Coast shipping port operations, as well as the port interface with various modes of transportation; b) an estimation of commodity flows, advances in port technology and the development of standards of measurement of port capacity to assist in projecting future needs; c) the structure and use of multipurpose ports and the development of multiport models to analyze competitive effects among ports serving the same region or regional parts; and d) suggested requirements for change in physical form and use of U.S. Atlantic ports to meet future demands. second part of the report develops and presents the methodology for multipurpose port and multiport analysis and planning.

E.G. Frankel, Author
Massachusetts Institute of Technology
Sea Grant Project Office
Cambridge, Massachusetts
July 1973

Order from:
Massachusetts Institute of Technology
Room 5-331
77 Massachusetts Avenue
Cambridge, Massachusetts 02139

01-027

RIVER POINT DIRECTORY FOR THE MISSISSIPPI RIVER-GULF COAST INLAND WATERWAYS SYSTEM

The Directory covers all navigable rivers, bayous, streams, and other such waterways in the Mississippi River-Gulf Coast region in this initial printing. The rivers included are listed, generally, in the order of their importance as commodity transportation arteries with regard to varying degrees of impact on the economic welfare of the U.S. Most of the relatively minor streams and bayous are listed under the three responsible U.S. Army Corps of Engineers districts: Mobile, New Orleans, and Galveston. The Directory contains a compilation of significant data relating to each commercial dock, town, landing, navigation lock, bridge, junction, and other such river points contained in selected portions of the U.S. Army Engineer Waterborne Commerce Statistics Center Port and Dock Code Manual, Parts 2 and 3. Six other different types of reference documents were used to compile the information on each river point. The following information, where pertinent and available, was included for the 7425 river points listed: WCSC port and dock codes; descriptive title of each point; point type code; river code; location in terms of river mile, state, county, Business Economic Area (BEA), SMSA, and Waterways Freight Bureau tariff and junction indices. When available, the horizontal and vertical clearances in reet to the nearest tenth were included for each bridge. Also, a special Corps Performance Monitoring System (PMS) lock code was specified for each active lock listed.

L. Daggett, R. McCarley, Authors U.S. Army Engineer Waterways Experiment Station Hydraulics Laboratory P.O. Box 631 Vicksburg, Mississippi 39180 223 pp. May 1975

Order from: GPO

01-028
WATERWAY POINT DIRECTORY FOR THE GREAT LAKES, ATLANTIC, AND PACIFIC AREAS

The Directory is a quick reference working document for use by engineers and planners in the general fields of river navigation and waterborne commodity movements. All navigable rivers, bays, streams, creeks and other such waterways in the Great Lakes, Atlantic, and Pacific areas are included in this initial printing. The waterways covered in the Directory are listed by responsible U.S. Army Corps of Engineers district in three separate appendices, one for each region. The Directory contains a compilation of data relating to each commercial dock, town, landing, navigation lock, bridge, junction and other such river points in selected portions of the Corps Waterborne Commerce Statistics Center Port and Dock Code Manual, Parts 1-k. Eight other different types of reference documents and maps were used to compile information on each The following data, where pertinent and available, are shown for each river point listed: WCSC port and dock codes; descriptive title of each point; point type code; area code; location in terms of state, country, Business Economic Area (BEA), SMSA, and Water Resource Area; and a lock sode for each active lock. A revised edition should be available in early 1979.

L. Daggett, R. McCarley, Authors U.S. Army Engineer Waterways Experiment Station Hydraulics Laboratory P.O. Box 631 Vicksburg, Mississippi 39180 506 pp. January 1976

Order from: GPO

01-029 SHIP AGENTS/OWNERS/OPERATORS DIRECTORY

The directory is divided into four sections. Section I lists names and addresses of ship agents, owners, and operators in New York/New Jersey; Section II lists the names of steamship lines operating via that port; Sections III and IV contain listings of world ports served via New York and New Jersey, and nations of the world with vessel services through that port. The directory is scheduled to be updated quarterly.

The Maritime Association of the Port of New York 80 Broad Street
New York, New York 10004

### SEE ALSO:

ARAB SHIPPING 1978: A SEATRADE GUIDE (ANALYSIS, FORECAST) 40-044 CARGO PREFERENCE SYSTEM (CPS) 40-033 CONTAINERIZATION INTERNATIONAL YEARBOOK (ANALYSIS) 40-008 CONTAINERIZATION INTERNATIONAL YEARBOOK WORLD MAP OF CONTAINER ROUTES, SERVICES, AND OPERATORS 40-035 DOMESTIC WATERBORNE SHIPPING MARKET ANALYSIS: EXECUTIVE SUM-MARY (ANALYSIS, FORECAST) 40-066 EEC SHIPPING 1978: A GUIDE TO THE SEA TRANSPORT INDUSTRIES OF THE EUROPEAN ECONOMIC COMMUNITY (ANALYSIS, FORECAST) 21-012 EVALUATION OF MARITIME INDUSTRY ENERGY CONSUMPTION PROFILES (ANALYSIS) 10-008 FORECASTING MARINE TRANSPORTATION REQUIREMENTS FOR IMPORTS TO MIDDLE EASTERN OIL-EXPORTING COUNTRIES: 1976-1985. FINAL REPORT (ANALYSIS, FORECAST) 40-001 GREAT LAKES RED BOOK 21-059 INDIVIDUAL STATES' DEPARTMENTS OF TRANSPORTATION 60-010 INLAND RIVER GUIDE 60-016 JANE'S FREIGHT CONTAINERS: PORTS, OPERATORS, MANUFACTURERS (FORECAST) 21-024 MARINE ENGINEERING/LOG ANNUAL MARITIME REVIEW AND YEARBOOK ISSUE 21-003 MIDDLE EAST SHIPPING AND TRANSPORT 1978-1985 (ANALYSIS, FORE-CAST) 21-029 NATIONAL TRANSPORTATION TRENDS AND CHOICES (TO THE YEAR 2000) (ANALYSIS, FORECAST) 40-063 NATIONAL WATERWAYS STUDY (ANALYSIS, FORECAST) 60-006 OCEANLINER CARGO SERVICE, U.S. PORTS TO: EUROPE, AFRICA, MID-DLE EAST, FAR EAST, CARRIBEAN, SOUTH AMERICA 22-006 RO/RO SHORE AND SHIP RAMP CHARACTERICTICS: AN ICHCA SURVEY 1978 (ANALYSIS) 21-035 RORO WORLDWIDE GUIDE 21-066 SEATRADE U.S. YEARBOOK 1979 40-069 SEAWAY MARITIME DIRECTORY 60-011 THE STATE OF CONTAINERIZATION 1979 (ANALYSIS) 21-073 STATISTICAL QUARTERLY (FORECAST) 20-019 VESSEL MOVEMENT SYSTEM (VMM) 22-003 WATERWAY INVESTMENTS GUIDE: ARKANSAS, KANSAS, LOUISIANA, MISSOURI, OKLAHOMA 60-009

THE WESTINFORM REGISTER OF RO/RO VESSELS (ANALYSIS) 21-068

### 10 Maritime Economics

10-001
WORLD BANK

World Bank information collection is highly specialized. The Bank is organized regionally and economic reports are produced for each member nation that contain extensive current information on all aspects of the countries' trade, transportation, industrial development, construction, demography, and other areas. Some of the information is restricted but historical data is generally available. (Restrictions, if any, usually apply to the five most recent years.) Data may be obtained from the regional project offices; it is advisable, though, to ask only for specific information and to provide an explanation for what purpose the data are to be used. Written requests are preferred.

World Bank 1818 H Street, NW Washington, D.C. 20322

10-002

FAIRPLAY WORLD SHIPPING YEARBOOK

The Yearbook contains a list of the world's shipping companies, with the following information provided for each company: name, date of registration, address, phone, telex, directors' names, subsidiary companies, types of service, areas of service, capital and reserves, total assets, results from the previous year, dividends paid, and names and addresses of overseas representatives.

For information, call (212) 246-5626.

Fairplay Publications Limited One Rockefeller Plaza New York, New York 10020

Order from: Fairplay Publications Limited One Rockefeller Plaza New York, New York 10020 10-003
TRANSPORT ECONOMICS

The topic coverage in this quarterly report, which varies from issue to issue, includes: operating revenues and mileages, rail, water, and motor carriers; piggyback traffic movements, water and rail carriers; the freight forwarding industry; oil pipeline revenues and traffic; and freight mileages and revenues by carriers.

Interstate Commerce Commission, Bureau of Economics Constitution Avenue and 12th Street, NW Washington, D.C. 20423

Order from: Interstate Commerce Commission, Bureau of Economics Constitution Avenue and 12th Street, N.W. Washington, D.C. 20423

10-004
MARITIME SUBSIDIES

This is the 8th publication that MarAd has released on the subject of maritime subsidies and is an updated version of the 1974 edition. It covers the subsidies and aids of 43 maritime nations. Statistical data presented include tables of economic data (country, estimated GNP, GNP per capita, value of foreign trade out and in, value of exports as an approximate percentage of the country's total oceanborne foreign trade carried by national flag ships) and merchant fleet statistics (country, number, and DWT of the merchant fleet, ships of 1,000 GT and over on order or under construction for national flag registry, principal countries of construction of ships on order for national registry). Each country is listed with the size of its fleet, value of its foreign trade, commodities exported and imported, trade partners, GNP and GNP per capita, government aids, tax benefits, loans, cargo preferences, and amount of government ownership of the existing fleet.

Muriel W. Coe, International Shipping Specialist Maritime Administration, Office of International Activities 14th and E Streets, NW Washington, D.C. 20230 144 pp. October 1976

Order from: GPO, 240-848/56

10-005 IMF SURVEY

Published twice monthly, the Survey contains a table of currency exchange rates, an index of primary commodity prices, international tourist receipts and expenditures, exchange rate adjustments, and general information on economic trends, the balance of payments, and international finance.

The Secretary, International Monetary Fund 700 19th Street, NW Washington, D.C. 20431

Order from: The Secretary, International Monetary Fund 700 19th Street, NW Washington, D.C. 20431

10-006

COMMODITY TRADE AND PRICE TRENDS (1978 EDITION)

The report contains historical information on the export trade of developing countries and 72 market price quotations of 44 commodities that are important in international trade. Also included are average trade matrices, 1974-1976; country shares of world commodity exports and commodity shares of country exports; 1960-1976 table of developing countries' export volumes; a table of market shares of world trade by economic classes, 1960-1977; developed countries imports of selected commodities in volume and value for 1970 and 1975 from developing countries separately and for the world; general price indices that can be used as deflators; selected data on ocean freight rates; and exports and imports of primary commodities and manufactures for 1960, 1970, and 1975 by region.

Samsher Singh and Staff, Authors World Bank 1818 H Street, NW Washington, D.C. 20322

Order from:
World Bank
Publications Unit
1818 H Street, NW
Washington, D.C. 20322
EC 166/78

10-007

SUMMARY OF NATIONAL TRANSPORTATION STATISTICS

This annual report provides time series data collected from a variety of government and private statistical handbooks. The information consists of selected national-level transportation statistics, including cost, inventory, and performance data describing the passenger and cargo operations of the following modes: air carrier; general aviation; automobiles; trucks; buses; local transit; rail; water; and oil pipeline. The report covers basic descriptors of U.S. transportation such as operating revenues and expenses, number of vehicles and employees, vehicle miles, and passenger miles. Previous aditions cover selected data over a 10-year span beginning in 1960.

Department of Transportation Office of the Secretary 400 7th Street, SW Washington, D.C. 20590

Order from: GPO

10-008

EVALUATION OF MARITIME INDUSTRY ENERGY CONSUMPTION PROFILES (ANALYSIS)

Prepared for MarAd, this study contains data and analyses of energy consumption and productivity by maritime industry segment: deep sea; the Great Lakes; inland waterways; offshore operations; ports; stevedoring; tugboat operators (ports); and shipbuilding and repair. Included are an evaluation and productivity measures.

G.W. Spann, N.J. Hooper, and C.J. Bonham, Authors Metrics, Incorporated Atlanta, Georgia 100 pp. December 1977

Order from: GPO, 1978 261-238/92

10-009 YELLOW SHEET

The Sheet appears monthly in <u>Seatrade</u> magazine. It provides a market review: spot tanker freight rates, dry cargo voyage freight rates, currency conversions, and liner freight rate changes.

For subscription information, call (212) 422-6470.

Seatrade Publications, Limited The Whitehall Building, 17 Battery Place New York, New York 10004

Order from: Seatrade Publications, Limited The Whitehall Building, 17 Battery Place New York, New York 10004

10-010
THE MARITIME AIDS OF THE SIX MAJOR MARITIME NATIONS (ANALYSIS)

The maritime nations covered are Japan, the U.K., Norway, Sweden, West Germany, and France. Included are measures of maritime activity, world shipbuilding and world fleet; shipbuilding activity and world fleet measures, 1970-76; the relationship of the 6 study countries to world shipping and the shipbuilding industry, 1975; the 6 nations' national shipbuilding programs and their relationships to fleet requirements, 1970-75; the 6 nations' shipbuilding deliveries and year-end backlogs, 1970-76; and the combined deliveries and year-end orders outstanding in DWTs and as a percentage of world activity for the 6 nations. It also contains appendices on Eastern Bloc maritime activity, OPEC maritime activity, less-developed countries maritime activity and how each of these segments relates to/effects the major powers.

Temple, Barker and Sloane, Inc. 15 Walnut Street Wellesley Hills, Massachusetts 02181 449 pp. September 1977

Order from:
Maritime Administration
Office of Policy and Plans
14th and E Streets, NW
Washington, D.C., 20230

10-011
WESTINFORM WEEKLY MARROT SERVICES

This publication reviews weekly dry cargo chartering activities on the Baltic exhange and offers an index of dry cargo freight rates, reduced to a common denominator, for each week of the current and preceeding years for comparison purposes. Six additional tables are provided as follows: 1) Voyage and consecutive business by commodity, providing a comparison of the volume of single and consecutive voyage fixing in the current week against past weeks; 2) Time chartering, comparing the volume of trip and period charters agreed in the current week against past weeks; 3,4,5) Loading and delivery positions indicating how brokers view the freight market's prospects in the short and medium term; voyage and consecutive fixtures by the month due to load the cargo and time charter fixtures by the delivery month to the charterers, showing the extent of charterers' eagerness to fix ahead; forward fixing both in the current week and cumulatively to date and the cumulative position in the same week last year; and 6) Freight rate section, offering a guide to freight rate comparability between routes and cargoes and an indication of average earning positions in terms of a 14,900 tonner.

Westinform Service 9 Cork Street London WIX 1PD England

Order from:
Westinform Service
9 Cork Street
London WIX 1PD
England

10-012
TRANSPORTATION ENERGY CONSERVATION DATA BOOK: EDITION 2
(ANALYSIS, FORECAST)

This study comprises a statistical compendium of secondary data on transportation characteristics by mode, transportation energy use, and other related variables presented in tabular and/or graphic form. All major modes of transportation are represented: highway, air, rail, marine, and pipeline. six main chapters focus on various characteristics of the transportation sector including modal characteristics; current energy use, efficiency, and conservation; projections of modal energy use; impact of government activities; supply and cost of energy; and general economic and demographic characteristics. Included in more than 400 tables and figures are the following transportation stock and use statistics: number of vehicles; vehicle-miles traveled; passenger miles and freightton miles; fleet characteristics; and vehicle travel characteristics. Energy data presented include energy use by fuel source and transportation mode; energy intensity figures by mode; indirect energy use; production as a percentage of consumption; imports as a percentage of domestic production; energy prices from the well head to the retail outlet; and alternative fuels. Also provided is information on the National Energy Plan, the Department of Energy, ERDA, and TEC transportation and energy demand projections.

This study was prepared for the Data Analysis Branch, Nonhighway Transport Systems and Special Projects, Transportation Energy Conservation Division, Office of Conservation at ERDA.

D. B. Shonka, A.S. Loebl, and P. D. Patterson, Authors Oak Ridge National Laboratory Oak Ridge, Tennessee 37830 October 1977

Order from: NTIS, ORNL-5320 10-013

## MARITIME INDUSTRY INFORMATION SYSTEM (MARIS)

This data bank is composed of a number of individual but closely related subsystems through which data generated within the Commission have been encoded for processing and retrieval. Records are integrated with current Bureau of Census vessel and commodity movement data to provide a broad range of up-todate information. The system screens all cargo movements against tariff records to ensure compliance with statutes requiring tariff filings and to provide an accurate determination of liner and nonliner cargo movements. By agreement with the Bureau of Census, the Commission is prohibited from divulging any information developed from Census vessel and commodity data which would identify the commercial activities of individual companies or persons. The internal data are derived from applications filed with the Commission to be licensed as an independent ocean freight forwarder, tariffs filed with the Commission, carrier conferences, and from agreements filed with the Commission pursuant to Section 15 of the Shipping Act, The Water Pollution subsystem includes applicant name/address, underwriter's name/address, and vessel name and characteristics. Data are current and updated bimonthly. The Freight Forwarder subsystem includes the name/address, home or branch office, license number, state, and certain characteristics for each freight forwarder. The data and current and updated monthly. The Tariff subsystem include: tariff name, effective data, participating carriers, geographic trade route, and various characteristics of the tariff. are maintained in a current status and updated monthly. Agreements subsystem includes data on each active agreement (excluding terminals) on file with the Commission. Information covers agreement name, participating members, effective and expiration date, geographic trade route and various characteristics of the agreement. Data are current and updated monthly. The Master Name/Address subsystem provides name/address for various mailing lists.

For information, call (202) 523-5863.

Federal Maritime Commission Bureau of Industry Economics 1101 L Street, NW Washington, D.C. 20573

### SEE ALSO:

ANALYSIS OF THE WORLD TANK SHIP FLEET, DECEMBER 31 (YEAR) 21-040 (ANALYSIS) ANNUAL REPORT OF THE SHIPBUILDER'S COUNCIL OF AMERICA 20-006 CARGO PREFERENCE SYSTEM (CPS) 40-033 DATA RESOURCES INCORPORATED 40-067 DIRECTION OF TRADE ANNUAL 40-017 ECONOMIC IMPACT OF THE U.S. PORT INDUSTRY: AN INPUT-OUTPUT ANALYSIS OF WATERBORNE TRANSPORTATION (ANALYSIS) 01-004 EEC SHIPPING 1978: A GUIDE TO THE SEA TRANSPORT INDUSTRIES OF THE EUROPEAN ECONOMIC COMMUNITY (ANALYSIS, FORECAST) 21-012 EXPANSION OF THE SOVIET MERCHANT MARINE INTO THE U.S. MARITIME TRADES (ANALYSIS, FORECAST) 40-027 FINANCIAL AND STATISTICAL REPORT 40-056 INDIVIDUAL STATES' DEPARTMENTS OF TRANSPORTATION 60-010 INTERFILE 40-055 INTERNATIONAL ECONOMIC INDICATORS 40-013 INTERSTATE COMMERCE COMMISSION ANNIAL REPORT TO CONGRESS 40-010 THE LABOR MARKET OF THE U.S. SHIPBUILDING INDUSTRY (ANALYSIS) 50-006 LNG 1974-1990: MARINE OPERATIONS AND MARKET PROSPECTS FOR LIQUEFIED NATURAL GAS (ANALYSIS, FORECAST) 40-049 MARAD (YEAR): ANNUAL REPORT OF THE MARITIME ADMINISTRATION FOR FISCAL YEAR (YEAR) (ANALYSIS) 20-010 MARINE ENGINEERING/LOG ANNUAL MARITIME REVIEW AND YEARBOOK ISSUE 21-033 MARINE INSURANCE INFORMATION SYSTEM (MII) 21-009 MARINE MANAGEMENT SYSTEMS 21-070 MARITIME CONTRACT IMPACT SYSTEM (MCIS) 51-001 THE NEWBUILDING MARKET 1978: SHIPBUILDING ACTIVITY THROUGH-OUT THE WORLD 20-014 OCEAN TRANSPORTATION (ANALYSIS, FORECAST) RELATIVE COST OF SHIPBUILDING: REPORT TO THE CONGRESS ON THE RELATIVE COST OF SHIPBUILDING IN THE VARIOUS COASTAL DISTRACTS OF THE U.S. (ANALYSIS) 20-012 REPORT OF THE COMMISSION ON AMERICAN SHIPBUILDING (ANALYSIS, FORECAST) 20-016 SEATRADE U.S. YEARBOOK 1979 40-069 SHIP DATA BANK SYSTEM 40-029 SHIPPING STATISTICS AND ECONOMICS (ANALYSIS) 40-026 THE STATE OF CONTAINERIZATION 1977 (ANALYSIS) TRANSOCEANIC CARGO STUDY, VOLUME II (FORECAST) 40-053 TRANSPORT STATISTICS IN THE U.S. 40-009 TRENDS IN U.S. FOREIGN TRADE 40-028

U.S. EXPORTS TRANSSHIPPED VIA CANADIAN PORTS 40-046

SEE ALSO (CONT'D.)

U.S. LIFE LINES (ANALYSIS, FORECAST) 40-015
U.S. PORTS' FOREIGN TRADE JANUARY TO DECEMBER (YEAR) 01-010
WESTINFORM MONTHLY TANKER BULLETIN 40-018
WORLD FREIGHTS (ANALYSIS) 40-064
WORLD SHIPPING STATISTICS (ANALYSIS) 21-072

# 20 Commercial Vessel Construction and Repair

20-001

SHIPS ON ORDER AND MARINE BUSINESS REVIEW

This survey is published quarterly and provides an international statistical record of merchant ship contracts held throughout the world (excluding the U.S.S.R., the German Democratic Republic, and the People's Republic of China) for vessels of 2,000 DWT and over. The data include the total of all ships; the number, DWT, and HP of tankers and ships other than tankers contracted through the end of the quarter on a country-by-country basis; and particulars of vessels being built or on order in each country listed by owner.

IPC Industrial Press Limited Dorset House, Stamford Street London SEl England

Order from: IPC Industrial Press Limited Dorset House, Stamford Street London SE1 England

20-002

REPORT ON SURVEY OF U.S. SHIPBUILDING AND REPAIR FACILITIES (ANALYSIS, FORECAST)

Data included in this annual survey cover all major U.S. ship-building facilities. Specific information is provided on man-power, material shortages, shippard pollution abatement, ship repair facilities, major drydocking facilities, major topside repair facilities, yard plans, major U.S. private shippards number of shipways by maximum length capacity, and ship construction capability by ship type.

Maritime Administration, Office of Ship Construction 14th and E Streets, NW Washington, D.C. 20230

Order from: GPO

20-003 LLOYD'S REGISTER OF SHIPPING APPENDIX

The Appendix contains lists of shipbuilders with the names of existing ships that they have built; marine engine builders and boilermakers; dry and wet docks; the telegraphic addresses and codes used by shipping firms; and marine insurance companies.

See entries for Marine Management Systems in this publication for information regarding magnetic tape and computer print-outs of Lloyd's materials.

Lloyd's Register of Shipping 71 Fenchurch Street London EC3M 4BS England

Order from: Lloyd's Register of Shipping 71 Fenchurch Street London EC3M 4BS England

20-004
WORLD WIDE SHIPREPAIR FACILITIES (ANALYSIS, FORECAST)

This annual survey provides a listing, by region and country, of ship repair companies, including their addresses, phone and Telex numbers, and a description of the facilities each company has available. It also contains a map that shows the locations of worldwide ship repair docks.

IPC Business Press Limited 40 Bowling Green Lane London ECIR ONE England

Order from:
IPC Business Press Limited
40 Bowling Green Lane
London, ECIR ONE
England

20-005
INLAND U.S. YARDS DO BIG BUSINESS (ANALYSIS, FORECAST)

This special survey of American inland shipyards includes information on capabilities/facilities at each inland shipyard, ships under construction and on order, and a forecast of future developments and requirements.

Marine Engineering/Log International 508 Birch Street Bristol, Connecticut 06010 9 pp. Vol. 68 No. 9 September 1973

Order from:
Marine Engineering/Log International
508 Birch Street
Bristol, Connecticut 06010

20-006
ANNUAL REPORT OF THE SHIPBUILDER'S COUNCIL OF AMERICA

Statistics on the number and tonnage of ships 1,000 GT and larger are provided in the following categories: deliveries of merchant vessels by calendar years; merchant vessels building or on order in private shipyards; and merchant vessels ordered by calendar years. Data on naval shipbuilding for all vessels 1,000 LDT and larger includes deliveries of naval vessels by private yards by calendar years, naval vessels building or on order in private shipyards, naval vessels ordered from private yards by calendar years, and a breakdown of type of naval vessels under construction or on order. Other information includes a summary of shipbuilding activity in private shipyards, large merchant-type vessels under construction or on order by vessel type, approximate value of unfinished shipbuilding work in private shipyards, the number of commercial vessels repaired or converted in private shipbuilding and ship repair yards, and the dollar volume of repair and conversion work performed by private yards.

For information, call (202) 338-7722.

Shipbuilder's Council of America 600 New Hampshire Avenue, NW Washington, D.C. 20037

Order from: Shipbuilder's Council of America 600 New Hampshire Avenue, NW Washington, D.C. 20037 20-007 CONSTRUCTION

The December issue of this periodical contains an annual list of workboat and barge building activity in the U.S. for the previous year. The information is listed in regional and state-by-state breakdowns and includes the name of each company with its address, the boat name and delivery date, the number, dimensions, and types of boats under construction, their owners and their equipment.

H. L. Peace Publications 624 Gravier Street New Orleans, Louisiana 70130

Order from: H. L. Peace Publications 624 Gravier Street New Orleans, Louisiana 70130

20-008
CURRENT STATUS OF SHIPYARDS, 1974 (ANALYSIS, FORECAST)

Data presented in the three parts of this congressional study include a comparison by age of the U.S. active fleet and Soviet Naval operational ships; U.S. Naval shippards civilian personnel breakdown; an estimate of Naval shippard capacity; Naval shippards' long-range program investment; work distribution in the major ship construction yards; average merchant ship tonnage completed in selected years; current total shipbuilding and repair labor forces of the 6 major shipbuilding nations; principal shipbuilding and repair facilities in the U.S.; location of principal floating drydocks of 1,000 ton capacity and over; special industrial capabilities; projected average size of the future world fleet ships; an assessment of the capabilities of each shippard engaged in Naval shipbuilding; and information on construction subsidies.

Seapower Subcommittee, Committee on Armed Services U.S. House of Representatives 93rd Congress, Second Session 1975

Order from: GPO

20-009
INTERNATIONAL SHIPPING AND SHIPBUILDING DIRECTORY

This annual directory offers information on companies that regularly undertake ship repair work or build main propulsion machinery in 48 different countries. Data include the name of the company, telephone number, chairman and managing director, shipyard manager, berths (number and maximum length), dry docks (number and size), building docks, type of vessels built, type of vessels specialized in, other work conducted, associated companies, maximum annual output, and hauling out slips and fitting out basins.

Benn Brothers Limited London, England

Order from: Nichols Publishing Company P. O. Box 96 New York, New York 10024

20-010

MARAD (YEAR): ANNUAL REPORT OF THE MARITIME ADMINISTRATION FOR FISCAL YEAR (YEAR) (ANALYSIS)

The data included in the report are as follows (unless otherwise noted, the figures are current as of 9/30 of the relevant year): ships built under CDS; private construction contracts awarded; new ships delivered by U.S. shipyards; ship deliveries, worldwide as of 6/30; ship financing guarantees approved; Title XI ship financing guarantees program summary; capital construction fund holders; construction reserve funds; U.S. oceangoing merchant marine; employment of U.S.-flag oceangoing merchant fleet; major merchant fleets of the world as of 6/30; U.S. oceanborne foreign commercial cargo carried (tonnage and dollar value); ODS accrual and outlays since 1/1/37; ODS accruals and outlays by line since 1/1/37; ODS contracts in force; Soviet grain ODS contracts in effect; foreign transfer approvals; U.S. Great Lakes fleet; government sponsored cargoes; maritime manpower average monthly employment; National Defense Reserve Fleet, 1945-present; marine and warrisk insurance approved; maritime subsidy outlays, 1936present; and research and development contracts awarded.

37

Maritime Administration 14th and E Streets, NW Washington, D.C. 20230

Order from:
Maritime Administration
Office of Public Information
14th and E Streets, NW
Washington, D.C. 20230

20-011 SHIPBUILDING PROGRESS REPORT

This monthly report contains a tabulation of CDS construction and private construction and includes a shipbuilding progress report summary sheet.

For information, call (202) 377-3433.

Maritime Administration Office of Ship Construction 14th and E Streets, NW Washington, D.C. 20230

20-012

RELATIVE COST OF SHIPBUILDING: REPORT TO THE CONGRESS ON THE RELATIVE COST OF SHIPBUILDING IN THE VARIOUS COASTAL DISTRICTS OF THE U.S. (ANALYSIS)

Marad's annual June report to Congress contains data on the costs of labor, materials, and overhead in the shipbuilding industry for Atlantic, Gulf, Pacific, and Great Lakes areas. The data is obtained from Marad, the Bureau of Labor Statistics at the Dept. of Labor, and the Dept. of the Navy. Specific information includes shipyard production and employment: merchant ships 5000 GT and over delivered or on contract; contracts awarded under the Merchant Marine Act of 1970 with the date of the award, number of ships, their designs, owners, contractors, and prices; and shippard employment in yards with facilities for building ships 475' x 68' and larger; shipyard employee earnings and shipbuilding costs: comparative wages of production workers in 14 port areas; building trades union wage rates; total employment and average hourly earnings of production workers in the shipbuilding and repair industry; labor rates in U.S. naval shipyards; and a summary of cost differentials for steel, other materials, labor, and overhead for the Pacific, Gulf, and Great Lakes versus the East Coast.

For information, call (202) 377-4571.

Months time Administration of Crice of Shipbuilding Costs 14th and E Streets, NW Washington, D.C. 20230

Ord ofrom:

20-013 NEW SHIP CONSTRUCTION: OCEANGOING MERCHANT TYPE SHIPS OF 1,000 GT AND OVER

Published each December, this annual report lists the number of ship deliveries during the year by country of construction; the number, GT, and DWT of ships delivered in the year; the otal and, for 4 types of vessels, a cross-tabulation by country of construction and country of registry of all ships constructed during the year; total DWT and percent of world tonnage by country for the leading 20 countries in merchant fleet construction and registration; and the number, GT, and DWT of ships under construction or on order as of year end, including the total and 4 types of vessels cross-tabulated by country of construction and country of intended registry.

For information, call (202) 377-4373.

Maritime Administration Office of Ship Construction 14th and E Streets, NW Washington, D.C. 20230

20-014
THE NEWBUILDING MARKET 1978: SHIPBUILDING ACTIVITY THROUGHOUT THE WORLD

The contents include a weekly breakdown by yard of all orders placed, showing shipbuilder, country of build, owner, vessel type, and DWT; monthly and annual tabular breakdowns giving the rate of ordering by country of domicile of the owner and country of build, including such details as vessel type, number of unit orders placed, total DWT for each vessel type, and overall DWT totals; contract prices by country of build and nationality of contractor, together with the terms of payment where available; and relevant graphs depicting the relationship of tonnage ordered to the number of vessels contracted throughout 1977 for major countries. Plans are to make this an annual publication.

For information, call (212) 246-5626.

Fairplay Publications, Limited One Rockefeller Plaza
New York, New York 10020
1978

Order from: Fairplay Publications, Limited One Rockefeller Plaza New York, New York 10020 20-015
MAINTENANCE AND REPAIR (M&R)

This data base is updated as material becomes available. The data elements include codes for vessel name, ship design, operator, region, trade route, voyage number, section, function cost, material, cause for repair, corrective action, group summary, facility, facility location, repair region, manufacturer, cost, fleet type, calendar quarter, year, and termination date.

For information, call (202) 377-4373.

Maritime Administration, Office of Snip Construction 14th and E Streets, NW Washington, D.C. 20230

20-016
REPORT OF THE COMMISSION ON AMERICAN SHIPBUILDING (ANALYSIS, FORECAST)

The statistical tables included in Volumes II and III of this report contain data such as: trade carried by American-flag vessels, 1825-1940; a comparison between the U.S. merchant marine and the world total fleet, 1880-1946; the distribution of shipbuilding and repair industry employment; production workers in U.S. shipbuilding and repair industry; the investment plans of the U.S. Navy through 1979; naval ships under construction; commercial vessel repairs and conversions; channel depths in selected ports; information on Japanese, Swedish, and West German shipbuilding; merchant vessels ordered by calendar years; location of principal ship repair yards and facilities; industry trends; equivalent U.S. and foreign ship prices; projections of merchant fleet replacement and new building requirements through 1980; projected production mix of world shippards through 1980; projection of world merchant fleet tonnage through 1980; construction price comparisons for different types of vessels; and a daily operating cost summary.

Volume I: Executive Summary. 16 pp. GPO 1973 0-519-829 Volume II: The Report. 265 pp. GPO 1973 0-519-462 Volume III: Annexes. 1.174 pp. GPO 1973 0-501-651

Commission on American Shipbuilding 1717 Pennsylvania Avenue, NW Washington, D.C. 20006

Order from: GPO

20-017

LLOYD'S REGISTER OF SHIPPING SHIPBUILDING RETURNS FOR THE QUARTER ENDED (MONTH/DAY/YEAR)

The following statistical data are included in the quarterly returns: a world summary of work in hand and the total order book; the leading countries in ship construction; progress made during the quarter compared to the previous quarter; annual progress; a breakdown by country of merchant ships under construction in the world at the end of the quarter; a breakdown by country of all ships/total order book at the end of the quarter; the size of steamships and motorships under construction at the end of the quarter with the numbers of ships in divisions of GT by country where building; all ships under construction at the end of the quarter showing principal types; all ships not commenced at the end of the quarter showing principal types; the registration of all ships under construction at the end of the quarter by country where building and country of intended registration; the size of all steamships and motorships not commenced at the end of the quarter by country where building; the principal trading types in the total order book at the end of the quarter in DWT by country where building; all ships commenced and launched during the quarter showing principal types by country of build; the principal trading types completed during the quarter in DWT by country of build; and a summary of ships under construction, not commenced, launched, or completed for the previous 4 years by country of build.

See entries for Marine Management Systems in this publication for information regarding magnetic tape and computer printouts of Lloyd's materials.

Lloyd's Register of Shipping 71 Fenchurch Street London EC3M 4BS, England

Order from: Lloyd's Register of Shipping 71 Fenchurch Street London EC3M 4BS, England 20-018

ANNUAL REPORT ON THE STATUS OF SHIPBUILDING AND SHIP REPAIR INDUSTRY OF THE U.S. (ANALYSIS, FORECAST)

The annual NAVSEA report contains a summary of merchant ships building or on order as of 1 January; firm workload at 20 major shippards; shipbuilding industry workload forecast; workload forecast for eleven major private shipyards; shipyards' need for new business as of 31 December; ship cost estimate projections; status of undefinitized change orders; labor and material index trends; major design agencies technical personnel in ship design as of 31 December; ship construction under contract, 1 January; CDS contracts awarded since the 1970 act; Navy ships under construction or on order as of 31 December; Naval ship deliveries; shipbuilding contracts awarded for Naval vessels in the year; Navy five-year shipbuilding program; foreign military shipbuilding programs as of 31 December; division of warship construction between private and Naval shipyards, FY1948 to the present; shipwork allocation between Naval and private shipyards, FY1968 to the present; individual claims settlements/withdrawals for the year; shipbuilding claims over \$1,000,000 on hand as of 31 December; Naval shipyard apprentice enrollment as of 31 December; average hourly increases in wages for the fiscal year; vendor strikes affecting Navy shipbuilding. conversion and repair; annual turnover rates of selected private shipyards per 100 employees; orderbooks of leading shipbuilding countries; and average hourly earnings of wage earners in construction and repair of ships.

Coordinator of Shipbuilding, Conversion, and Repair Office of Maritime Affairs
Naval Sea Systems Command (NAVSEA 00X3)
Washington, D.C. 20362

Order from: GPO

20-019 STATISTICAL QUARTERLY (FORECAST)

Data included are: private shipyard employment for all employees (total and regional breakdown, including a comparison with previous quarters and years); naval shippard employment for all employees (total and regional breakdown, with comparisons to previous quarters and years); merchant-type vessels delivered by U.S. private shippards, 1,000 GT and over (for a 25-year period and projections through the early 1980s, giving the year, number of deliveries, GT, number built with a construction subsidy, number built for government account, number for U.S. flag with no subsidy, number built for foreign registry, and total GT for all newbuildings); country-by-country breakdown of merchant fleets of the world, oceangoing steam and motor ships of 1,000 GT and over, excluding ships operating on the Great Lakes and inland waterways and special types such as channel ships and merchant ships owned by military forces (by type of vessel, giving GT, DWT, and number); indexes of straight time hourly earnings for selected private yards engaged in steel vessel construction by region; comparison of shipbuilding and repair earnings with other selected industries; a material index for NAVSHIPS steel vessel contracts; and prevailing wages for basic ratings at naval shippards in dollars.

For information, call (202) 338-7722.

Shipbuilders Council of America 600 New Hampshire Avenue, NW Washington, D.C. 20037

Order from: Shipbuilders Council of America 600 New Hampshire Avenue, NW Washington, D.C. 20037 20-020 FIRS SHIPBUILDING COMPUTER SERVICES

Fairplay International Records and Statistics (FIRS) maintains a computerized file of all commercial vessels over 1,000 DWT delivered since January 1, 1967 and on order or under construc-The Master File contains data supplied by FIRS agents throughout the world backed by reports from shipyards, shipowners The information available from FIRS includes and shipbrokers. full propulsion details, such as engine type, HP, and names of builder/licensee; reported contract prices and terms: ship types (dry cargo, container, tanker, bulk carrier, OBO, ferry, and over 200 miscellaneous types); and historical and other data on a variety of subjects (shipowners, builders, nationalities, flags, tonnages, dimensions, cargo gear, and capacity). Information can be provided in the form required by clients. For example, it can be arranged by year of order or completion, or by vessel types, flags, countries of ownerships, countries of building, or it can be arranged as tables of figures. The computer information provided is available in magnetic tape. print-out or punched card form.

FIRS Shipbuilding Computer Services
Fairplay International Records and Statistics
Minster House, Arthur Street
London EC4R 9AX
England

20-021 FIRS WEEKLY NEWBUILDING REPORT

The contents of this report produced by Fairplay International Records and Statistics (FIRS) include a summary of the week's new contracting activity with a breakdown of vessel categories and countries of build; an alphabetical index of shipyards, detailing the number of vessels, owner, vessel type, and DWT; newbuilding data listed separately for each new contract; special notes updating information since the contract was first reported; and contracts pending, detailing ship negotiations and inquiries. This information is supplemented by cancellations, prices, completions, launches, charters and world reports which relate to the future of the newbuilding market.

FIRS Weekly Newbuilding Report Fairplay International Records and Statistics Minster House, Arthur Street London EC4R 9AX England

## SEE ALSO:

21-054

AMERICAN BUREAU OF SHIPPING ANNUAL REPORT 21-032 ARAB SHIPPING 1978: A SEATRADE GUIDE (ANALYSIS, FORECAST) 40-044 CONTAINERISATION INTERNATIONAL YEARBOOK (ANALYSIS) EEC SHIPPING 1978: A GUIDE TO THE SEA TRANSPORT INDUSTRIES OF THE EUROPEAN ECONOMIC COMMUNITY (ANALYSIS, FORECAST) 21-012 EVALUATION OF MARITIME INDUSTRY ENERGY CONSUMPTION PROFILES 10-008 (ANALYSIS) GREENWOOD'S GUIDE TO GREAT LAKES SHIPPING 21-060 INDUSTRY WAGE SURVEY: SHIPBUILDING AND REPAIRING 50-002 INLAND RIVER GUIDE 60-016 THE LABOR MARKET OF THE U.S. SHIPBUILDING INDUSTRY (ANALYSIS) 50-006 MARINE ENGINEERING/LOG ANNUAL MARITIME REVIEW AND YEARBOOK ISSUE 21-033 MARINE WEEK 21-065 THE MARITIME AIDS OF THE SIX MAJOR MARITIME NATIONS 10-010 MERCHANT MARINE DATA SHEET 21-010 MIDDLE EAST SHIPPING AND TRANSPORT 1978-1985 (ANALYSIS, FORE-21-029 CAST) NATIONAL TRANSPORTATION TRENDS AND CHOICES (TO THE YEAR 2000) (ANALYSIS, FORECAST) 40-063 OCEAN TRANSPORTATION (ANALYSIS, FORECAST) 21-018 SEATRADE U.S. YEARBOOK 1979 40-069 SHIPSTATS WEEKLY REPORT 21-061 50-008 SHIPYARD MANPOWER ANALYSIS (SMA) STANDARDIZED STERN PROJECT: FINAL REPORT (ANALYSIS, FORECAST)

WORLD SHIPPING STATISTICS (ANALYSIS) 21-072 WORLD SHIPS ON ORDER 21-046

## 21 Commercial Vessel Characteristics

21-001

CHEMICAL TANKERS: THE SHIPS AND THE MARKET (ANALYSIS, FORECAST)

Included are a list of the existing fleet of over 560 vessels with their operational details; a list of chemicals carried in bulk by sea with their pollution category, IMCO carriage requirements and movement indicator; the principal uses of selected chemicals; a cargo compatibility chart; a list of vessels on order with their main particulars; and an assessment of vessel requirements into the 1980s.

M. Corkhill, Author Fairplay Publications Limited One Rockefeller Plaza New York, New York 10020 August 1976

Order from: Fairplay Publications Limited One Rockefeller Plaza New York, New York 10020

21 002 DIRECTORY OF SHIPOWNERS, SHIPBUILDERS, AND MARINE ENGINEERS

Established in 1903, the Directory is the oldest worldwide directory of the maritime industry. It includes indices of container operators, shipping firms, engine builders, ferry operators, international associations, societies, and other lists. Also included is an index of ship names and their owners.

IPC Industrial Press Limited 40 Bowling Green Lane London EC1R ONE England

Order from:
IPC Industrial Press Limited
40 Bowling Green Lane
London ECIR ONE
England

21-003
OCEANBORNE SHIPPING: DEMAND AND TECHNOLOGY FORECAST
(ANALYSIS, FORECAST)

Including projections to the year 2045, this two-part study of the future of oceanborne shipping in volume of trade, craft technology, and size of world fleets forecasts total tonnage, number of ships, the distribution of ship sizes, trends in ship productivity, and world fleet composition. The trade forecasts are provided separately for total world oceanborne trade and for U.S. trade, with the U.S. forecasts broken down by coastal region.

Litton Systems, Incorporated 815 Lapham Street El Sagundo, California 90245 564 pp. 1969

Order from: NTIS, PB-179142, 43

21-004
THE LIQUID GAS CARRIER REGISTER (ANALYSIS)

The Register includes an analysis of vessel types and capacities; a list of LG carriers in size (volume capacity) order; a list of owners and their LG carrier fleet; particulars of LG and oil carriers; particulars of LG carriers under construction or on order; and particulars of sea going independent LG barges. The existing fleet is also listed by flag, by country of build, by year of tuild, and by owner.

H. Clarkson and Company Limited 52 Bishopsgate London EC2P 2AD England

Order from:
H. Clarkson and Company Limited
52 Bishopsgate
London EC2P 2AD
England

21-005
MERCHANT VESSEL DOCUMENTATION SYSTEM (MVD)

The MVD system input data are derived from merchant vessel documents, including registration, enrollment and license, frontier enrollment and license, and yacht enrollment and license. Principal data elements are the official register number, vessel number, vessel name, vessel description, home port, and owner information. The data are maintained in both machine-readable form and in documentation files. The automated files are updated monthly, and the monthly and annual hardcopy reports produced are publicly available.

For information, call (202) 426-2438.

U.S. Coast Guard Information Systems Division 400 7th Street, SW Washington, D.C. 20590

21-006

MERCHANT FLEETS OF THE WORLD: OCEANGOING STEAM AND MOTOR SHIPS OF 1,000 GT AND OVER AS OF DECEMBER 31 (YEAR) (ANALYSIS)

This annual report summarizes an extensive collection of vessel data maintained by MarAd on the merchant ships of all maritime nations. It includes tabular information on the world's merchant fleets showing the number of vessels and GT and DWT for four all-inclusive vessel type designations (passenger vessels, bulk carriers, tankers, and freighters). The freighter fleet is further broken down into 5 subgroups which highlight recent developments in intermodal vessels. Comparative DWT rankings of each national flag for the current year and selected previous years are given for each type of vessel. An extended analysis of the U.S. merchant fleet and the fleets of the 12 largest maritime nations is also presented.

For information, call (202) 377-3013.

Maritime Administration Office of Trade Studies and Statistics 14th and E Streets, NW Washington, D.C. 20230

Order from:
Maritime Administration
Office of Trade Studies and Statistics
14th and E Streets, NW
Washington, D.C. 20230

21-007 THE MOTOR SHIP

Each monthly issue of this magazine contains a listing of completions for the month, giving the vessel owner, builder, yard number, machinery, DWT, HP, length, breadth, draft, speed, type, and date of delivery.

IPC Industrial Press Limited Dorset House, Stamford Street London SEl England

Order from: IPC Industrial Press Limited 33-40 Bowling Green Lane London ECIR ONE England

21-008

LISTING OF BARGES SPECIALLY DESIGNED TO BE CARRIED ABOARD ANOTHER VESSEL

Listed in this publication are U.S.-registered shipborne barges, current to November of the year of publication. A quarterly report containing updated lists of barges used in international trade is also issued. Data include the company assigned number or name of the vessel and its official U.S. or foreign government number for SEABEE-type and LASH barges, listed by company of ownership. Also listed are the vessel's home port, place of construction, and gross and net registered tonnages. The data are supplied by the barge owners or agents.

For information, call (202) 377-2746.

Maritime Administration 14th and E Streets, NW Washington, D.C. 20230

Order from: Maritime Administration 14th and E Streets, NW Washington, D.C. 20230 21-009
MARINE INSURANCE INFORMATION SYSTEM (MII)

Updated as required, the MII data base elements include the vessel ID code, vessel characteristics, home port, registry information, insurance carried, underwriter ID, insurance claims, contract price, construction cost, world market value, mortgage balance, replacement cost, book value, and war risk value (G.O. 82).

For information, call (202) 377-4820.

Maritime Administration, Office of Marine Insurance 14th and E Streets, NW Washington, D.C. 20230

21-010
MERCHANT MARINE DATA SHEET

The monthly Data Sheet provides a statistical summary of the status of the active U.S. fleet, and of all vessels under construction or conversion. Particular data provided for U.S. oceangoing merchant marine vessels of 1,000 GT and over, excluding privately owned tugs, barges, and other special types, include the number of ships in each class (active and inactive fleet combination carriers, freighters, bulk carriers, tankers, and intermodal carriers), and their gross and deadweight tonnages. Other data presented are as follows: employment of U.S.-flag oceangoing merchant marine vessels of 1,000 GT and over, excluding vessels operating exclusively on inland waterways, the Great Lakes, those owned by the U.S. Army, and special types such as cable ships and tugs; the total subsidized fleet, including both the number of privately owned subsidized vessels and companies holding operating subsidy contracts; the U.S. Great Lakes fleet of self-propelled vessels of 1,000 GRT and over; distribution of shipboard jobs on cargo ships, tankers, and combination carriers; manpower figures for longshoremen, shipyards, the Great Lakes, and men in training; ship construction and conversion under contract by company (number of vessels, type, total DWT, cost, amount of government participation, owner, and scheduled delivery data); and a summary of new and converted privately constructed ships completed during the previous year.

Order from:
Maritime Administration
Office of Public Information
14th and E Streets, NW
Washington, DC 20230

21-011 LLOYD'S REGISTER OF SHIPPING LIST OF SHIPOWNERS

The List contains the names of owners and managers of the ships recorded in the Register with their fleets.

See entries for Marine Management Systems in this publication for information regarding magnetic tape and computer print-outs of Lloyd's materials.

Lloyd's Register of Shipping 71 Fenchurch Street London EGGA - RS, England

21-012

EEC SHIPPING 1978: A GUIDE TO THE SEA TRANSPORT INDUSTRIES OF THE EUROPEAN ECONOMIC COMMUNITY (ANALYSIS, FORECAST)

This Guide is divided into 2 sections. The first section concerns the Community as a whole and contains a discussion of the latest developments in the EEC shipping and shipbuilding policies, an analysis of trade and fleet figures, and a comparison of the EEC with other world sectors. This section also includes a list of EEC and international organizations and associations. The second section comprises a country-bycountry breakdown and deals in depth with the maritime industries of the 9 member states. For each country, there is a general article summarizing the current status of the country's shipping, shipbuilding, and port industries. There is also a detailed look at at least one major port of each member nation and brief statistics on other ports. The country section is followed by a listing of the major shipowners and shipbuilders. The data were compiled from Clarkson's Register, Containerisation International, Eurostat, Lloyd's Register, and the Westinform Register.

For information, call (212) 422-6470.

M. Wood, Editor .
Seatrade Publications Limited
Whitehall Building, 17 Battery Place
New York, New York 10004
368 pp. 1978

21-013
WORLD LINER AND TRAMP FLEETS (ANALYSIS)

This annual guide offers a statistical scrutiny of the age, ownership, and areas of operation of the world's general cargo liner and tramp tonnage, including refrigerated vessels. Small vessels between 2,500 DWT and 6,000 DWT and large vessels over 6,000 DWT are classified separately. Currently, it covers over 10,000 multideck vessels. Also included is an analysis of over 60 of the world's trade routes from age and ownership-of-vessel points of view.

Netherlands Maritime Institute The Hague, Netherlands

Order from: Seatrade Publications The Whitehall Building 17 Battery Place New York, New York 10004

21-014 SEA TECHNOLOGY HANDBOOK DIRECTORY

The Directory lists manufacturing firms, service organizations, research and development organizations, engineering firms, construction companies, drilling companies, equipment firms, and testing organizations that provide goods and services to the oceanographic, marine sciences, and undersea defense industries; a product buyer's guide; a service buyer's guide; a summary list of ships and submersibles engaged in oceanographic research, marine exploration, offshore exploration and survey, fisheries and biological research, hydrography, minerals survey, and meteorological observations; professional and scientific organizations; U.S. government departments and agencies with activities and responsibilities in oceanography, marine science, and undersea defense; and the names of educational institutions with related programs.

For information, call (703) 524-3136.

Compass Publications, Incorporated 117 North 19th Street Arlington, Virginia 22209 21-015 OCEAN YEARBOOK (ANALYSIS)

To be inaugurated in 1978 and published in November, the Ocean Yearbook is a reference source and review, providing data and surveys on the rapidly evolving uses of ocean space. Each volume will include as regular features a review of the year's principal occurrences, essays appraising recent developments, reports from organizations, pertinent documents, and tabular data. These data include information on, for example, world fish catch, offshore oil and gas exploration and transportation, world shipping tonnage, and weapon system development. There will also be a directory of institutions engaged in ocean-related research.

University of Chicago Press 11030 Langley Avenue Chicago, Illinois 60628

Order from: University of Chicago Press 11030 Langley Avenue Chicago, Illinois 60628

21-016 VESSEL INVENTORY REPORT

This semi-annual report contains data on the U.S.-flag dry cargo and tanker fleets, including vessels of 1,000 GT and over, divided into 3 sections: an alphabetical listing of all merchant ships in the U.S. merchant fleet, with the name of the owner and/or operator, vessel type, design type and DWT; an alphabetical arrangement of owners and/or operators, together with a list of vessels controlled by each; and a list of Reserve Fleet sites maintained by Marad and the vessels, both merchant and military types, in lay-up at each site, together with a design type summary for the Reserve Fleet as a whole.

For information, call (202) 377-4758.

Maritime Administration Office of Trade Studies and Statistics 14th and E Streets, NW Washington, D.C. 20230 21-017
A FORECAST OF 1970-1985 WORLD SHIPPING (ANALYSIS, FORECAST)

This study focuses on the future use of shipping in the North Atlantic by NATO nations. Data provided include the 1970 and forecasted number of ships in the merchant fleet of NATO nations, average speeds, average tonnages, fleet capacities, annual trade (tonnage transported) and fleet productivity (cargo tons per DWT) up to 1985. Four classes of ships are covered: tankers, bulk carriers, container ships, and other cargo ships.

R. Wiederkehr, J. Deltenre, and N. Horspool, Authors Saclant ASW Research Centre La Spezia, Italy September 1971

Order from: NTIS

21-018
OCEAN TRANSPORTATION (ANALYSIS, FORECAST)

This extensive study conducted for the MIT Sea Grant Program, 1970-1972, provides a general analysis of ocean shipping trade systems and projections of future trends in marine commodities movements, ship capacity demand, and world shipbuilding demand under various models of economic and political situations. Statistical data presented include: worldwide demand for and supply of shipping; ocean transportation technology; trade commodity flows; shipbuilding costs; ocean barging, maritime labor and the longshore industry; financing of U.S. shipping; factors affecting shipping operations; and merchant marine subsidies, with an analysis of planning for subsidized liner replacement.

E. G. Frankel and H. S. Marcus, Authors MIT Sea Grant Program MIT Press Cambridge, Massachusetts 822 pp. 1973

Order from: MIT Press Cambridge, Massachusetts Report No. MITSG 72-18 21-019
MARINE CATALOG BUYERS GUIDE

This annual directory contains a listing of marine product categories, known suppliers, names and addresses of manufacturers, trade names, location of the companies, and product specifications. It also provides a directory of naval architects, consulting engineers, and marine surveyors.

Marine Engineering/Log 508 Birch Street Bristol, Connecticut 06010

Order from:
Marine Engineering/Log
P. O. Box 530
Bristol, Connecticut 06010

21-020

TRANSPORTATION LINES ON THE GREAT LAKES SYSTEM

This annual report contains data on vessel operators and their American flag vessels operating or available for operation as of October 1 on the Great Lakes System in the transportation of freight and passengers. General ferries, floating equipment used in construction work such as dredges, piledrivers and flats, fishing vessels, and recreational craft are not included. The names of vessel operators are listed alphabetically with the Engineering District number and business address of each. There is a description of each vessel with its NRT, register and overall lengths, register and overall breadths, drafts, HP, carrying capacity in short tons or units of cargo and number of passengers, heights of fixed superstructures, cargo handling equipment, vessel operating base, and year built or rebuilt. Also listed is the type of service, principal commodities carried, and waterways upon which and the location between which the services are conducted.

Also available are <u>Transportation Lines on the Mississippi</u>
River System and <u>The Gulf Intracoastal Waterway</u> and <u>Transportation Lines on the Atlantic, Gulf, and Pacific Coasts.</u>

U.S. Army Corps of Engineers, Waterborne Commerce Statistics Center New Orleans, Louisiana 70160

Order from:
District Engineer, U.S. Army Engineer District
P. O. Box 60267
New Orleans, Louisiana 70160

21-021
REGISTER OF NORWEGIAN, SWEDISH, DANISH, FINNISH, ICELANDIC
SHIPS AND OF OTHER SHIPS CLASSED WITH DET NORSKE VERITAS

The annual register includes statistical tables that detail particulars of the fleets, a list of cargo vessels according to deadweight capacity, a list of shipowners, a listing of drydocks with their locations and particulars, a summary of statutes affecting cargo vessels, and other information pertinent to vessels classed by the Det norske Veritas Classification and Registry of Shipping.

Det norske Veritas P. O. Box 6060, Etterstad Oslo 6, Norway

Order from:
Det norske Veritas
P. O. Box 6060, Etterstad
Oslo, Norway

21-022
MERCHANT FLEET FORECAST OF VESSELS IN U.S.--FOREIGN TRADE (ANALYSIS, FORECAST)

This study, conducted under the direction of MarAd, presents a forecast of fleets serving the U.S. foreign trade. Using trade and vessel data bases and computer programs, a fleet forecast has been prepared, in increments of 5 years, from 1980 to 2000, containing the number, size, and design characteristics of 9 vessel types (general cargo ships, partial containerships, full containerships, barge carriers, neobulk carriers, dry bulk carriers, combination carriers, LNG carriers, and tankers) serving U.S. foreign commerce on the 4 coasts of the U.S. (Atlantic, Gulf, Pacific, and Great Lakes). casting procedures were used along with a cargo forecast supplied by MarAd of 3-digit commodity imports and exports (Schedule A and B Commodity Subgroups) by trade route over the forecast time period. The foreign trade considered includes military and non-military cargo shipped under the Foreign Assistance Act and government financed cargo (P.L. 480) but not military cargos for the U.S. Armed Forces or commerce moving within the Great Lakes.

For information, call (202) 377-2578.

Temple, Barker and Sloane, Incorporated 15 Walnut Street Wellesley Hills, Massachusetts 02181 293 pp. May 1978

21-023 MERCHANT VESSELS OF THE U.S.

This annual publication lists the names of American merchant vessels and yachts, with their tonnages, dimensions, owners' names, and home ports, that have uncancelled marine documents, registers, enrollments, or licenses as of January 1.

U.S. Coast Guard 400 7th Street, SW Washington, D.C. 20590

Order from: GPO

21-024

JANE'S FREIGHT CONTAINERS: PORTS, OPERATORS, MANUFACTURERS
(FORECAST)

There are 9 sections included in this annual directory: Section 1: Ports and Inland Transports. Organized by country, Section 1 gives data on management, container facilities and container traffic for each port. Section 2: Ship Operators. Included here are the names of ship operating companies involved in containerized shipping, their phone numbers, officials' names, services, fleet, number of containers in service, and overseas branches. Section 3: Leasing. The name, address, phone number, and services of each container leasing firm is listed by country. Section 4: Container Manufacturers. Listed here are the names, addresses, phone numbers, and officials of container manufacturing firms and particulars of the containers they produce. Section 5: Container Handling Equipment. This section lists the names, addresses, and phone numbers of the equipment companies and the products they manufacturer. Section 6: International Rail and International Road. Data in this section includes information about the companies involved in international rail and read container transport, the scope of their operations, thir rail container services, traffic data, refrigerated traffic data, and names of their overseas representatives. Section 7: Air Freight. Section 8: International Container Standards. Section 9: Future Trends.

Ff Finlay, Editor Macdonald and Jane's Publishers Limited Paulton House, 8 Shepherdess Walk London N1, England

Order from: Franklin Watts Incorporated 730 5th Avenue New York, New York 10019 21-025
FLEET DATA SERVICE (FDS) (ANALYSIS, FORECAST)

The FDS data base contains information on all offshore service vessels now supporting the offshore petroleum industry, offshore tugs, and inland towboats. It is currently being enlarged to include information on offshore barges. Concentration is on two areas: hardware specifications of individual vessels and identification of vessels within operating fleets. It is organized by operating fleets, with each fleet list including a tabulation of all of the vessels operated by the fleet along with certain vessel specifications of operational interest. They have a complete market research capability. For a client, they can compile listings of vessels and equipment of specific interest, provide an assessment of historical statistical trends, conduct surveys and interviews to assess future trends, and offer analyses of present, past, and future conditions.

Fleet Data Service 1115 Gemini, Suite C Houston, Texas 77058

21-026
RESERVE SALVAGE VESSELS OF THE U.S.A.--FRELIMINARY REPORT

This study is being prepared by Fleet . Its Service for the Marad NATO War-Preparedness Survey. The preliminary report identifies vessels of the U.S. Merchant Marine that might be mobilized as salvage vessels in the event of hostilities. The final report, which is to be published in the same format, will contain data provided by the fleets that is not available from other sources.

Fleet Data Service 1115 demini, Suite C Houston, Texas 77058 March 1978

Order from: Marinime Administration NATO War-Preparedness Survey 14th and E Streets, NW Washington, D.C. 20230 21-027
FDS GUIDE TO MAJOR AMERICAN TUG FLEETS

Over 750 tugs in 44 fleets with offshore capabilities are listed. Fleet addresses are shown, and tugs are listed alphabetically by fleet showing mane, year built, length, verified HP, bow configuration, and wingh availability. Fleets on all U.S. coasts and Alaska and Hawaii are included.

Fleet Data Service 1115 Gemini Suite C Houston, Texas 77058

Order from: Fleet Data Service 1115 Gemini, Suite C Houston, Texas 77058

21-028
THE OFFSHORE SERVICE VESSEL REGISTER

Included are all self-propelled vessels of 100 GRT and over designed, converted or equipped to perform services in connection with offshore operations and such vessels under construction or on order. Tugs are included only if they incorporate features specifically suited to employment with the offshore industry. The listing covers ship name and type, flag, call sign, classification, DWT, GRT, speed, bollard pull the owner's and operator's names, year built or due for delivery, the builder's name, the ship's length, breadth, depth, draft, BHP, the engine builder, number of engines and their types, generators, propellers, bunker capacity, fuel consumption, stabilizers, thrusters, number of bulk tanks, discharge rates, rig chain locker capacity, size of the deck area, deck cargo, lifting gear, crew and passenger capacity, tank capacity, anchor handling and/or towing winch, and pum; J.

H. Clarkson and Company Limited 52 Bishopsgate London EC2P 2AD England

Order from:
H. Clarkson and Company Limited
52 Bishopsgate
London EC2P 2AD
England

21-029
MIDDLE EAST SHIPPING AND TRANSPORT 1978-1985 (ANALYSIS, FORECAST)

This special report includes data on Middle Eastern oil and gas tankers, dry cargo vessels, general shipping, ports, shipbuilding and repair facilities, and road, rail, and air interface transport. There is an analysis of the current state and a forecast of growth anticipated through 1985.

P.A. Smith, Author
The Economist Intelligence Unit Limited
Spencer Kouse,
27 St. James's Place
London SWIA INT
England
May 1978

Order from:
The Economist Intelligence Unit Limited
Spencer House,
27 St. James's Place
London SWIA 1NT
England
Special Report No. 53

21-030 WORLD DREDGING AND MARINE CONSTRUCTION ANNUAL DIRECTORY--DREDGES AND SUPPLIERS

The Directory includes an index of mations, listing the country and number of dredges total owned in each, with a state-by-state breakdown for the U.S.; a listing by country of the names of the world's dredging companies, their addresses, the names of the vessels they own, and the vessel size and type; a state-by-state breakdown for the U.S. of U.S. Army Corps of Engineer dredges by name, district, capacity, HP, and type; and an index of dredge suppliers.

Symcon Publishing Company P. O. Box 1800 San Pedro, California 90733

Order from: World Dredging and Marine Construction Magazine P. O. Box 1800 San Pedro, California 90733 21-031 THE TANKER REGISTER

The annual register contains tropical and winter DWT and draft diagrams; changes in the world tanker fleet during the relevant year, including deliveries and tankers renamed or removed; a list of special purpose tankers; the names of the world's tankers in size and age groups; particulars of tankers, including special-purpose types; a list of owners and/or managers; and comparative tables of temperatures, specific gravities, and AFI gravities and densities with equivalent weights.

H. Clarkson and Company Limited 52 Bishopsgate London EC2P 2AD, England

Order from:
H. Clarkson and Company Limited
52 Bishopsgate
London EC2P 2AD, England

21-032 AMERICAN BUREAU OF SHIPPING ANNUAL REPORT

The Report includes a statistical review of the following: new vessels classed by country of builder that were completed during the previous year (number, GT, DWT); vessels on order by country of builder as of 1 January (number, GT, DWT); vessels in class by type as of 1 January (number); new vessels classed by type that were completed during the previous year (number, GT, DWT); vessels on order by type as of 1 January (number); vessels and gross tonnage in each class as of 31 December of the previous year. A listing of flags of registry of ABS-classed vessels is also presented, giving the number of vessels classed for each flag.

For information, call (212) 785-9755.

American Bureau of Shipping 45 Broad Street New York, New York 10004

Order from: American Bureau of Shipping 45 Broad Street New York, New York 10004 21-033
MARINE ENGINEERING/LOG ANNUAL MARITIME REVIEW AND YEARBOOK ISSUE

Published annually in the June issue, the Yearbook includes statistics on the U.S. shipbuilding outlook for the year, including Naval vessels and shippards; world shipping and shipbuilding; characteristics of the U.S.-flug oceangoing fleet of active vessels 2000 GT and over; U.S. ship disposals for the year; and data on facilities, total tonnage movements, and entrances and clearances at major world ports. Coverage also includes data on shipping contracts, subsidies, and shipbuilding costs.

Marine Engineering/Log International 508 Birch Street Bristol, Connecticut 06010

Order from: Marine Engineering/Log International P. O. Box 530 Bristol, Connecticut 06010

31-034

STANDARD SHIP DESIGNS, VOLUME I: DRY CARGO VESSELS 9,500-25,000 DWT

This publication contains line drawings and details of 98 standard designs from 46 snippards, including dimensions, capacities, machinery details, and cargo gear. There are also 3 appendices listing 1,000 vessels under builders and licensees, by both manager and registered owner.

For information, call (212) 246-5626. Further volumes are forthcoming covering small dry cargo ships, bulk carriers, and RO/RO ships.

Fairplay International Records and Statistics (FIRS) Minster House, Arthur Street Lendon EC4R 9AX England Vol. 1. May 1977

Order from: Fairplay Publications Limited One Rockefeller Plaza New York, New York 10020 21-035 RO/RO SHORE AND SHIP RAMP CHARACTERISTICS: AN ICHCA SURVEY 1978 (ANALYSIS)

This survey tabulates information for 370 roll-on/roll-off shore ramps with support data on the maximum vessel size acceptable, berth type, distance from centerline to side, the depth of water alongside, tidal information, and other particulars. 715 vessels are listed and data on each includes limension, type, trade route, owner/manager, ramp position, and pivot height. Maximum loading and cargo dimensions are included for ships with bow ramps and doors, stern ramps, quarter ramps, and slewing ramps. There are brief sections on American sideloading trailerships, barge RO/ROs, and heavy-lift ships. The section on cargo handling equipment includes details on 37 tractor units, 59 roll-on trailers, and 28 fork lifts used in RO/RO operations.

International Cargo Handling Coordination Association Abford House, 15 Wilton Road London SWIV 1LX England 330 pp. 1978

Order from: International Cargo Handling Coordination Association Abford House, 15 Wilton Road London SWIV 1LX England

21-036
INTERNATIONAL SHIPBORNE BARGE REGISTER

The Register is maintained and printed by a computer program on a quarterly basis. The information is derived from undated information supplied by the bargeship operators and private shippers. It lists the names or company-designated numbers of barges specially constructed to be carried by LASH or SEABEE vessels, with data from the official barge registry, including the assigned registered number.

For information, call (202) 377-4123.

Maritime Administration, Office of Port and Intermodal Development 14th and E Streets, NW Washington, D.C. 20230

Order from: GPO

21-037
A STATISTICAL ANALYSIS OF THE WORLD'S MERCHANT FLEETS (ANALYSIS)

Published annually by the Maritime Administration, this report contains summary statistics for the world's major maritime fleets. Included are all merchant ships of 1,000 GT and over, excluding those operating on the Great Lakes and special types such as cable ships, icebreakers, trawlers, and those owned by the military forces. Freighters, bulk carriers, tankers, and combination ships are covered, with particulars on each type.

For information, call (202) 377-4758.

Maritime Administration, Office of Subsidy Administration 14th and E Streets, NW Washington, D.C. 20230

Order from: GPO

21-038 FOREIGN FLAG MERCHANT SHIPS OWNED BY U.S. PARENT COMPANIES

The May 1978 edition contains material current as of December 31, 1976. It includes only foreign—flag oceangoing merchant type ships of 1,000 GT and over owned by U.S. parent companies located and incorporated in the U.S., either by direct ownership or through a foreign subsidiary company. Part One data are for owned ships: summary by flag, showing type, number of ships and tonnage; a listing showing the U.S. parent companies and their foreign affiliates; and a list of ships by owner showing where built, flag and other characteristics. Data in Part Two relate to ships under construction: summary by flag, showing type, number of ships and tonnage; and a listing by owner detailing the name of the ship's hull, if available, where building, GT, DWT, speed, and country of registry.

For information, call (202) 377-2333.

Maritime Administration, Office of Subsidy Administration. 14th and E Streets, NW Washington, D.C. 20036 May 1978

Order from:
Maritime Administration, Office of Subsidy Administration
14th and E Streets, NW
Washington, D.C. 20036

21-039
TALBOT-BOOTH'S MERCHANT SHIPS, VOLUME I

Volume I covers vessels with engines and bridge amidships and three-quarters aft. Included are 3,500 individual ships or classes on a worldwide basis, naming around 10,000 ships with a cross-index. Each of the 3,500 drawings is to scale. Technical details include name and flag, year and country of build, GRT, dimensions such as length and draft, machinery, speed, former names with years of changes, and sister or similar ships, with ex-names and years of changes. A 6-month updating supplement will be available.

LCDR E. C. Talbot-Booth Nichols Publishing Company P. O. Box 96 New York, New York 10024 384 pp. January 1978

Order from: Nichols Publishing Company P. O. Box 96 New York, New York 10024

21-040
ANALYSIS OF THE WORLD TANK SHIP FLEET, DECEMBER 31 (YEAR)
(ANALYSIS)

The following statistical information is included in this analysis: a world inventory of the world tank ship fleet; flag of registry distribution; carrying capacity of fleet ships; changes in DWT; DWT and speed of fleet ships; average speed by flag; average age by major flags of registry; distribution of carrying capacity; new construction and ships on order; the number and DWT of U.S.-owned tank ships, including all oceangoing vessels 2,000 GT and over; a draft analysis of the world tank ship fleet by major flags of registry; and an analysis of the tank ship charter markets.

Sun Shipbuilding and Dry Dock Company Bulk Cargo Ship Product Group Chester, Pennsylvania 19013

Order from: Sun Shipbuilding and Dry Dock Company Chester, Pennsylvania 19013 21-041 FDS SPECIFICATIONS OF LARGE FOREIGN (NON-U.S.) OFFSHORE VESSELS

Specifications are included for over 500 vessels operated by 70 non-U.S. fleets. Vessels of 165 feet LOA and larger are listed alphabetically under the fleet name and address. It covers supply, tug/supply, platform/supply and maintenance, diving support, geophysical, and well-service vessels. Fleets of all nations including the USSR and PRC are represented.

Fleet Data Service 1115 Gemini, Suite C Houston, Texas 77058

Order from: Fleet Data Service 1115 Gemini, Suite C Houston, Texas 77058

21-042 SHIP DATA SYSTEM (SDS)

MarAd is authorized and directed in Section 211, Merchant Marine Act of 1936 as amended to maintain and disteminate ship characteristics data on oceanging merchant ships of 1,000 GT and over that comprise the world merchant fleet. The SDS is used in this connection to maintain and update an automated file of ship characteristics data pertaining to the U.S.-and foreign-flag fleets. Information is used to produce a wide variety of data, published and unpublished, which are used by MarAd, other government agencies, private industry, and unions. Using source materials such as the ABS, ships' documents and certificates, USCG, Lloyd's monthly supplements, and other ship registers to determine what changes have occurred in a ship's structure, ownership, or flag, the information is recorded on MA Form 768 and is used as input to update the ship data files. The principal subject matter covered is merchant vessel characteristics. Data include vessel ID, vessel name, flag of registry, owner, owner ID, type and class of vessel, NRT, DWT, date constructed, and employment status.

For information, call (202) 377-4373

Maritime Administration, Office of Ship Construction 14th and E Streets, NW Washington, D.C. 20230 21-043 LOSSES AND SCRAPPINGS

This annual publication is not generally available as an official document of the Maritime Administration, but copies can be secured on request. It contains a listing by country of all commercial vessels lost or scrapped during the year, and includes the total number of ships lost or scrapped, the year of build, GT, DWT, and average age of the ships in each class (freighters, combination carriers, containerships, and tankers).

For information, call (202) 377-2201.

Maritime Administration Office of Trade Studies and Statistics 14th & E Streets, NW Washington, D.C. 20230

21-044 LLOYD'S REGISTER OF SHIPS

Established in 1760, this annual register contains names, classes and general information concerning the ships classed by Lloyd's Register of Shipping and particulars of all known oceangoing merchant ships in the world of 100 GT and over. It also contains floating docks, liquid gas carriers, ships carrying refrigerated cargo, refrigerated stores and container terminals classed with Lloyd's Register, and offshore drilling rigs as well as lists of changes of ships' names and compound names. It is kept up to date by means of cumulative monthly supplements containing the latest survey records for all classed ships and changes of name, ownership, flag, tonnage, etc., for all ships whether classed or not. Each supplement is accompanied by particulars of new entries to the Register. A weekly list of alterations in the Register of Ships is also published.

The Haviland Maritime Library, 4129 Roland Avenue, Baltimore, Maryland 21211, has a collection of Lloyd's Register from 1834 to date.

See entries for Marine Management Systems in this publication for information regarding magnetic tape and computer print-outs of Lloyd's materials.

Lloyd's Register of Shipping 71 Fenchurch Street London EC3M 4BS, England

Order from: Lloyd's Register of Shipping 71 Fenchurch Street London EC3M 4BS, England 21-045
WORLD TANKER FLEET REVIEW (FORECAST)

Published semi-annually in February and August, the Review contains a list of the present fleet, along with any additions and deletions made in the previous 6 months, newbuildings, deliveries, ownership of newbuildings, tanker ports, and particulars of the tankers listed, including ship size, technical aspects of the tankers, and size summaries. Also covered are combined carriers, both the existing fleet and newbuildings on order. A section containing fleet forecasts and the future market outlook is presented in each issue.

John I. Jacobs, Limited Winchester House, 77 London Wall London EC2N 1BX England

Order from: John I. Jacobs, Limited Winchester House, 77 London Wall London EC2N 1BX England

21-046 WORLD SHIPS ON ORDER

This quarterly publication is available free to subscribers of Fairplay International Shipping Journal. The following vessel types are covered: dry cargo vessels (other than bulk carriers); container ships; tankers; tankers of 150,000 DWT and over; ore/oil and ore/bulk/oil carriers; bulk carriers; passenger vessels and ferries; miscellaneous (drilling rigs, dredgers, etc.). Listed for each ship on order are its owner, DWT, type, propulsion and machinery type, speed, dimensions (length, beam, and draft), capacity, shipbuilder, hull number, delivery date, and its special features, if any. Section 4 contains a list of the addresses of all shipyards represented. Included are the phone numbers, Telex, and shipyard capacities of the yards listed.

For information, call (212) 246-5626.

Fairplay Publications Limited One Rockefeller Plaza New York, New York 10020

Order from: Fairplay Publications Limited One Rockefeller Plaza New York, New York 10020

71

21-047
ANNUAL SURVEY OF THE MARINE TRANSPORTATION INDUSTRY PLUS . . . NORTH SEA REPORT

The contents include a survey of offshore crewboats, supply vessels and tugs with the names of owners, the number and type of vessels owned, the vessels' sizes, lengths, HP, speeds, DWTs, work areas, dollar values, and flags of registry; and a list of new vessels planned and under construction with their particulars.

Ocean Industry Magazine P.O. Box 2608 Houston, Texas 77001

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Order from: Ocean Industry Magazine P.O. Box 2608 Houston, Texas 77001

Also available from: University Microfilms, Incorporated 300 North Zeeb Road Ann Arbor, Michigan 48106

21-048 FDS GUIDE TO AMERICAN OFFSHORE VESSELS

The annual guide provides fleet profiles of 145 American offshore fleets including all vessels listed alphabetically within the fleet. Also included are specifications on 1,365 tug/supply and supply vessels, utility boats, crewbcats, survey and service vessels over 10 feet LOA. Newbuildings for the year of publication and following year are listed. Specifications for each vessel include flag, year built, length, continuous horsepower, engine make and model, tankages, and capacities. There is an engine rating index provided for over 50 diesel engine models.

Fleet Data Service 1115 Gemini, Suite C Houston, Texas 77058

Order from: Fleet Data Service 1115 Gemini, Suite C Houston, Texas 77058 21-049 FISHERIES OF THE U.S.

Included in this annual publication are data on U.S. commercial and recreational fisheries and on world fisheries. Information on the fishing fleet is provided, particularly data on vessels entering the fishery industry during the year, vessels constructed for the U.S. and Puerto Rican fishing fleets during the year, and employment of the vessels by type.

National Marine Fisheries Service National Oceanic and Atmospheric Administration 3300 Whitehaven Street, NW Washington, D.C. 20007

Order from: NTIS or GPO

21-050 LLOYD'S REGISTER ANNUAL SUMMARY OF MERCHANT SHIPS COMPLETED DURING (YEAR)

This compendium of statistical tables contains the following data: a world summary, by country, of all ships of 100 GT and over, excluding wood and non-propelled craft completed during the year; a similar summary by type of vessel; the size of steamships and motorships completed during the year by country of build; all ships completed during the year showing principal types by country of build; the registration of all ships completed during the year by country of build and country of registration; 10-year summaries of ships completed by country of build and of ships launched by country of build; merchant ships launched during the year by country where launched; the size of steamships and motorships launched during the year by country where launched; and all ships launched during the year showing principal types by country where launched.

See entries for Marine Management Systems in this publication for information regarding magnetic tape and computer print-outs of Lloyd's materials.

Lloyd's Register of Shipping 71 Fenchurch Street London EC3M 4BS, England

Order from: Lloyd's Register of Shipping 71 Fenchurch Street London EC3M 4BS, England 21-051 THE BULK CARRIER REGISTER

A record of all bulk carriers and combined carriers in the world with DWT of 10,000 and over, the Register is updated on an annual basis. Data included are changes in the bulk carrier fleet during the previous year and the name, owner/manager, size, age, dimensions, speed, and flag of the world's bulk carriers, ore carriers, bulk/oil carriers and ore/oil carriers. Also listed are special—type bulk carriers.

H. Clarkson and Company, Limited 52 Bishopsgate London EC2P 2AD England

Order from:
H. Clarkson and Company, Limited
52 Bishopsgate
London EC2P 2AD
England

21-052 ANNUAL DIRECTORY OF MARINE DRILLING RIGS

Published each year in the September issue of Ocean Industry Magazine, the Directory contains a listing of submersibles, drillships and barges, semi-submersibles, and jack-ups involved in offshore drilling with their characteristics (quarters, hull, drilling equipment, derrick, cranes, who contracted to, and work area) and a picture or photograph of each. The principal head-quarters for rigs are also listed.

Ocean Industry Magazine P.O. Box 2608 Houston, Texas 77001

Order from:
Ocean Industry Magazine
P.O. Box 2608
Houston, Texas 77001

Alsc available from: University Microfilms, Incorporated 300 North Zeeb Road Ann Arbor, Michigan 48106 21-053
JANE'S OCEAN TECHNOLOGY, OIL AND GAS EXPLORATION RIGS,
OWNERS/OPERATORS

This annual register lists, by name of owner/operator and by location, all oil and gas exploration rigs currently operating in the world's ceans or under construction.

Macdonald and Jane's Publishers Limited Paulton House, 8 Shepherdess Walk London N1, England

Order from: Franklin Watts Incorporated 730 Fifth Avenue New York, New York 10019

21-054 STANDARDIZED STERN PROJECT: FINAL REPORT (ANALYSIS, FORECAST)

Volume I of this study contains a narrative report with summary data on the projected demand for new ship construction, 1975-2905; specifications of ships suitable for standard stern design by vessel type and propulsion system; comparative costs of conventional standard stern construction; shippard capacity requirements; and a list of U.S. shippards capable of standard stern construction. Volume II, the Executive Summary, is a condensed form of the Report. Volume III is the Appendix. contains technical data on standard red stern design and construction requirements; cost breakd s; projected trends in U.S. oceanborne foreign trade, 1975. 30, for general cargo, s; projected trends in dry bulk, neobulk, liquid gas and liquid bulk cargo movements; trends in U.S.-flag participation in oceanborne foreign tanker, liner, nonliner, and cargo trade, 1965-1975, and projected 1976-2005: containerized cargo as a percentage of total U.S. oceanborne cargo in five-year intervals, 1975-2005; the numl of vessels to be constructed by type and size, 1975-2005; and port facilities requirements.

J.J. Henry Company, Incorporated 2341 Jefferson Davis Highway Arlington, Virginia 22202

Order from: NTIS Vol. I--PB 252 927; Vol. II--PB 262 926; Vol.III--PB 262 928 21-055
PISHERY STATISTICS OF THE U.S.

This periodical publication includes data on the number of vessels in the U.S. fishing fleet by geographical location, by tonnage groups, by length distribution, and by horsepower distribution.

National Marine Fisheries Service National Oceanic and Atmospheric Administration 3300 Whitehaven Street, NW Washington, D.C. 20007

Order from: GPO

21-056

INVENTORY OF U.S. COMPANIES' OFFSHORE PETROLEUM AND RELATED ACTIVITY, AN ASSESSMENT OF SEAFLOOR MINING, AND FORECASTS 1975-1985, 1985-2000: FINAL REPORT (ANALYSIS, FORECAST)

The data provided in this report include the following: total number of offshore rigs in operation; operating, stacked, and under-construction offshore rigs; water depth capability vs. location and rig type for offshore rigs operating and underconstruction in the Gulf of Mexico and North Sea; estimated total vessel inventory; offshore vessels, location vs. classification and registry; total number of crew personnel on vessels in the Gulf of Mexico; forecast of U.S. offshore wells, 1975-2000; number of average annual working rigs by region; mobile rig exploratory drilling forecast for Atlantic annual working rigs by region: mobile rig exploratory drilling forecast for Atlantic OCS special areas; forecast for all drilling rigs; a summary of U.S. offshore drilling activity; U.S. provincial and cumulative rig demand for the mobile rigs world fleet; and U.S. provincial demand and world fleet demand for support vessels.

E.A. Lohse, Author
U.S. Coast Guard, Office of
Merchant Marine Safety
700 4th Street, SW
Washington, D.C. 20590
March 1976

Order from:

21-057

CONTAINER SHIP REGISTER, (YEAR), WITH SURVEY OF CONTAINER SHIP OPERATORS AND CONTAINER SHIP OWNERS (FORECAST)

A systematized survey of container vessel operators and their tonnage, the Register contains: a listing of existing ships; newbuilding and conversions on order; projected or planned ships and contracts under negotiations; container ships ranged in order of cubic carrying capacity under each ship's type; a survey of operators of container ships with their activities, trades, and ships; and a survey of container ship owners with their ships and the ships' operators.

A.S. Shipping Consultants Frid jof Nansens Plass 6 Oslo, Norway

Order from: A.S. Shipping Consultants Fridtjof Nansens Plass 6 Oslo, Norway

21-058
JANE'S SURFACE SKIMMERS: HOVERCRAFT AND HYDROFOILS

Data on the following are included: Air Cushion Vehicle (ACV) manufacturers and design groups by country; ACV operators; ACV trailers and heavy lift systems; Air Cashion landing systems; tracked skimmers; Air Cushion applicators, conveyors and pallets; hydrofoil manufacturers by country; sailing skimmers; hydrofoil operators; licensing authorities; U.K. ACV registrations; ACV clubs and associations; and ACV and hydrofoil consultants.

R. McLeavy, Editor Macdonald and Jane's Publishers imited Paulton House, 8 Shepherdess Walk London N1, England

Order from: Franklin Watts Incorporated 730 5th Avenue New York, New York 10019 21-059 GREAT LAKES RED BOOK

The Red Book is generally a directory of commercial U.S. and Canadian Great Lakes-St. Lawrence Seaway shipping. It lists over 300 commercial Great Lakes fleets and 1,400 vessels with their dimensions, captains, chief engineers, owners, and operators. The Shippard and General Information sections have pictures and facts of shippards, different vessel types, and the entire lock system from Montreal to Lake Superior. The Dock and Terminal section, which includes bulk and general cargo docks, provides information about port facilities and services in the Great Lakes area.

For information, call (313) 779-5570.

Fourth Seacoast Publishing Company, Incorporated 24145 Little Mack St. Clair Shores, Michigan 48080

Order from: Fourth Seacoast Publishing Company, Incorporated 24145 Little Mack St. Clair Shores, Michigan 48080

21-060 GREENWOOD'S GUIDE TO GREAT LAKES SHIPPING

Updated annually, the Guide contains data on bulk freighters, package freighters, crane vessels and cargo barges, self-unloaders, tank vessels, and tug vessels that operate on the Great Lakes. Also included are mileage tables and information on marine insurance companies, shippards and repair facilities, pollution control facilities, and service industries that cater to Great Lakes shipping firms.

J. O. Greenwood, Editor Freshwater Press, Incorporated The Arcade, Room 446 Cleveland, Ohio 44114

Order from: Freshwater Press, Incorporated The Arcade, Room 446 Cleveland, Ohio 44114 21-061 SHIPSTATS WEEKLY REPORT

The information contained in this weekly newsletter is based upon market news from the shipping industry, intelligence from a network of correspondents, and reports from brokers, owners, builders, government agencies, and shipping organizations. It covers transactions on all classes of commercial vessels—tankers, dry cargo, combination carriers, offshore rigs and barges, passenger carriers, fishing boats, tugs, dredgers, etc.—of 100 GRT and over. Typical data supplied in the Report are contracts pending, contracts placed, contracts cancelled, conversion contracts, ship sales, renamings, recent lay-ups, deliveries, and casualties.

Shipstats
6 Broad Street Place
London EC2M 7JH
England

Order from:
Fisher Maritime Transportation Counselors, Incorporated
50 South Orange Avenue
South Orange, New Jersey 07079

21-062
THE WESTINFORM REGISTER OF CONTAINERSHIPS

This annually published register contains an alphabetical listing by vessel name of all container vessels in the world fleet that are currently in operation or under construction. Included are details such as vessel draft, DWT, NRT, GRT, beam, LOA, container capacity, and specifics of handling equipment and requirements. The Register also provides cross references with the vessels grouped according to name of the owner/operator, shipyard where constructed, and GRT. The information was obtained from each vessel's owner/operator.

Westinform Service 9 Cork Street London WIX 1PD England

Order from:
Westinform Service
9 Cork Street
London WIX 1PD
England

21-063
TRANSPORTATION SERIES FILE (TSF)

The TSF was originally maintained and utilized by the U.S. Army Corps of Engineers Waterborne Commerce Statistics Center for the purpose of printing and publication only. (See entry for TRANSPORTATION LINES.) In order to use the data in assisting navigation planners, it had to be restructured. The North Central Division of the Corps performed this restructuring task and added elements which enable communication with the WCSC commerce and traffic files. Ultimately, more elements will be incorporated into TSF that can be used to cross-reference with U.S. Coast Guard and Corps Performance Monitoring System data bases. Some of the data elements currently available are WCSC and USCG vessel numbers; owner vessel number; operator name and WCSC code; vessel name; NRT; and vessel length, breadth, draft, HP, cargo and passenger capacities, year built, and type. Thus far, the File has been used to generate reports on barge utilization on the Mississippi River System/Gulf Coast; barge fleet by type and size on the Great Lakes, Mississippi River System, Gulf Coast, and Atlantic and Pacific Coasts; and towboat fleet age on the Great Lakes, Mississippi River System, Gulf Coast, and Atlantic and Pacific Coasts.

U.S. Army Corps of E. Reers North Central Divisi Chicago, Illinois

21-064
JANE'S OCEAN TECHNOLOGY, TUGS AND SUPPLY VESSELS, OPERATORS AND FLEETS

Published annually, this register lists tugs and supply vessels in the world fleet and gives details of each vessel.

Macdonald and Jane's Publishers Limited Paulton House, 8 Shepher ss Walk London N1, England

Order from: Franklin Watts Incorporated 730 Fifth Avenue New York, New York 10019 21-065 MARINE WEEK

This weekly magazine contains, in its Business Section, shipping statistics for the previous month derived from H.P. Drewry Limited data; newbuilding reports; ship sales for further trading or for demolition; contracts; and completions. There is also an index of suppliers and services for ship machinery and equipment.

IPC Industrial Press Limited Dorset House, Stamford Street London SE1 9LU England

Order from:
Subscriptions Department
IPC (S&D) Limited
Oakfield House, Perrymount Road
Heywards Heath, Sussex
England

21-066 RORO WORLDWIDE GUIDE

The 1978 Guide is the second edition of this publication that provides information on routes and services available for roll-on/roll-off cargo shipment. Ports are arranged alphabetically by country so that users can extract comparative information on a series of ports within a particular country. There is a section on major operator fleet details, including lane lengths, ramp and axle limitations, and container, car, trailer, driver and passenger capacities for each vessel. Also provided is a separate alphabetical listing of agents by port and country within world operating zones.

Brendon Bernard, Editor Intec Press Limited 3 Station Parade Whyteleafe, Surrey England 220 pp. 1978

Order from: Intec Press Limited 3 Station Parade Whyteleafe, Surrey England 21-067
JANE'S OCEAN TECHNOLOGY, RESEARCH AND SURVEY VESSELS,
OPERATORS AND FLEETS

This annual register lists all research and survey vessels in the world fleet with particulars of each.

Macdonald and Jane's Publishers Limited Paulton House, 8 Shepherdess Walk London N1, England

Order from: Franklin Watts Incorporated 730 Fifth Avenue New York, New York 10019

21-068
THE WESTINFORM REGISTER OF RO/RO VESSELS (ANALYSIS)

The owner and/or operator of every vessel listed in the annual Register supply the data that it presents. Total lane length, width, and clear height are shown separately for each dock, and at each access point, the location and restrictions as to height, width, and weight on the ramp are given. The fleet has also been analyzed in terms of flag, size, year and build distribution. Calculations of the total linear length of the overall fleet, and hence of cargo capacity, are included. main part of the publication is the Register of Vessels which is in alphabetical order by ships' names. Train Carriers and newbuildings on order have been listed separately. A crossreference has also been provided, grouping vessels in the following ways: in order of GRT; under alphabetical order of owner/manager; under the shipyards that constructed them; and under the manufacturer of the engine installed. All of the standard register items such as draft, DWT, NRT, GRT, beam, LOA, and speed are included for each vessel.

The Westinform Service 9 Cork Street London W1X 1PD England

Order from:
The Westinform Service
9 Cork Street
London WIX 1PD
England

21-069
INVENTORY OF AMERICAN INTERMODAL EQUIPMENT (ANALYSIS)

This annual survey is divided into three parts. Sections I and II offer the following information about U.S. steamship companies and U.S. leasing companies: the name and address of the company and the appropriate contact for container services; the number, type, outside dimensions, inside dimensions, construction material, tare weight, cubic capacity, and size of door opening for containers; the number, type, GVWR, tare weight, and containers carried for chassis; the name, type, ship container capacity (size and number of shots), and TEUs for vessels; and the number type, outside and inside dimensions, construction materia, gross weight, cubic capacity, tare weight, and hatch size and type for barges/LASH. Section III contains statistical data: U.S. container ownership, carrier vs. leased, 1974-present, by type of container; U.S. container inventory comparison, 1974-present, with the container type, the quantity by type for each year, and the type as a percentage of the total fleet for each year; container fleet composition by type, 1974present; height and material analysis of dry van containers, 1974-present; principal container type analysis, 1974-present; U.S. intermodal equipment summary; U.S. container fleet growth over the previous year; and U.S. shipborne barge fleet growth over the previous year.

For information, call (202) 377-4123.

Maritime Administration, Office of Port and Intermodal Development 14th and E Streets, NW Washington, D.C. 20230

Order from:
Maritime Administration
Office of Port and Intermodal Development
14th and E Streets, NW
Washington, D.C. 20230

## 21-070 MARINE MANAGEMENT SYSTEMS

MMS and its subsidiaries, the Maritime Data Network and Marine Information System, cater to subscribers on a worldwide basis. The data base is operated on a time-sharing basis, and data can be retrieved through a local telephone number and a small desktop terminal, or through commercial Telex. The specific data files that are now operational include: Ship Data Files (Libraries), which contain statistics from Lloyd's Register of Shipping such as ship name, owner number and name, type of ship, DWT, GT, dimensions, speed, builder, delivery date, class, and flag of registry for all vessels over 1,000 GRT; Charter Fixture Library, including information for charter fixtures such as vessel name, DWT, cargo, charterer, period, load area, discharge area, rates, and dates, and time charter fixture information, which covers period, time charter rate, and performance requirements as well as delivery and redelivery dates; and the Tanker Casualty Library, with data on the casualty history of all LG carriers as well as all tankers and combination carriers over 6,000 DWT as published by Lloyd's List and compiled by the Tanker Advisory Center, the information being available to subscribers throughout the life of the vessel regardless of changes in name and ownership and including such elements as ship name and type, engine type, flag, DWT, owner and builder, delivery date, classification society, casualty date, casualty effect, a detailed text on the casualty, and the report date. Six more libraries are planned: Vessel Movements (to be on line in 3/79); Ship Sales and Purchase Library (also to be on line in 3/79); Port Information Library; Shipbuilders Information Library; Shipowners Information Library; and Ships on Order Library.

For information, call (203) 327-6433.

Marine Management Systems 300 Broad Street Stamford, Connecticut 06901 21-071

BULK CARRIERS IN THE WORLD FLEET: OCEANGOING MERCHANT TYPE SHIPS OF 1,000 GROSS TONS AND OVER EXCLUDING GREAT LAKES AS OF DECEMBER (YEAR)

This publication is a compilation of statistical data on the world's bulk carrier fleet as of December 31. Sixty-seven countries of registry are arranged alphabetically. The ships included have been placed in one of six categories of bulk carrier, and within each category are listed alphabetically. Five basic ship characteristics are displayed for each vessel: year built, GT, DWT, speed in knots, and draft in feet. Class totals are presented at the end of each category of ship, with a total for all classes of ships appearing as the last entry for each respective nation. Country totals have been added to provide a grand total for the world bulk carrier Table 1 provides a summary of this information on each country of registry and on each of the six categories of bulk carriers. The general bulk category includes general bulk carriers, as well as certain other vessels such as pellet, wood chip, and urea carriers. The special bulk class contains vessels which were designed for a specific type of cargo as well as general bulk cargoes. In this category are grouped bulk/car, bulk/oil, bulk/container, and bulk/timber ships. The ore carrier group is comprised of ships which carry either general or specific cargoes, such as ores, minerals and build-The last two categories, ore/oil and ing aggregates. ore/bulk/oil, contain those vessels designed to carry various combinations of ore, oil and general dry bulk commodities. These data were gathered from government documents available to the Maritime Administration as well as other public sources. Bulk carriers from inland waterways and the Great Lakes as well as vessels under 1,000 GT were not included.

For information, call (202) 377-4758.

Maritime Administration, Office of Trade Studies and Statistics 14th and E Streets, NW Washington, D.C. 20036 21-072
WORLD SHIPPING STATISTICS (ANALYSIS)

This annual publication reviews developments in the world bulk shipping market, placed within the context of long-term trends in world shipping. The contents include: statistics on tankers (the tanker market; crude oil production by area; estimated main inter-area seaborne oil movements for the year; the growth of the world tanker fleet; the world tanker fleet by age and DWT, by age and draft, and by DWT and draft; tankers laid up and inactive by owner, by size and location of inactivity, and by owner and flag, tanker cancellations; dirty and clean single voyage tanker chartering by company, by route, and by major oil companies; period tanker and combined carrier chartering by length of charter, average charter and tanker rates; and estimated Suez Canal transits); dry cargo (the dry cargo market; dry cargo chartering by commodity, by cargo size, by ship type, by delivery area, by loading area, and by discharge area; typical monthly rates; an historical trading analysis of the combined carrier fleet; the world bulk carrier fleet by age and DWT, laid up inactive tonnage; and iron ore and coal loading facilities for large bulk carriers); world shipping (the shipbuilding and sale and purchase market; the growth of the world bulk fleet; newbuilding prices; orders obtained by the world's shipyards by vessel type, deliveries and the order backlog of the world's shipyards; contract prices; and a comparison of freight rates with second-hand vessel contract prices); and gas (LPG and LNG carriers in service and on order as of the year end).

H. P. Drewry Shipping Consultants, Limited 34 Brook Street, Mayfair London WlY 2LL England

Order from:
H. P. Drewry Shipping Consultants, Limited Circulation Manager
34 Brook Street, Mayfair
London WIY 2LL
England

21-073
THE STATE OF CONTAINERIZATION 1979 (ANALYSIS)

This report is the fourth of a series, following an initial survey in 1972 and subsequent studies in 1974 and 1977. includes the following data: intermodal ships in service (name of company, total number of intermodal ships by type, total container carrying capacity of all ships in TEUs and capacity for refrigerated containers); a worldwide census of containers employed in the operational systems of steamship lines (name of company, number of dry vans, refrigerated or insulated containers, open top containers, half-height vans, dry bulk containers, tank containers, flats and other types, by 20-and 40-foot lengths); intermodal ships under construction or on order (name of company, flag, total number of intermodal ships by type, total carrying capacity of all ships in TEUs, and scheduled date of operation); container movements through world ports (name of port, total TEUs moved through the port for each year, 1972-1976, and a breakdown of amounts imported and exported); container tonnage handled in world ports in 1,000 metric tons (name of port, total tonnage handled, and a breakdown of amounts imported and exported, 1972-1977); traffic patterns for the U.S. (East, Gulf, and West Coasts and the Great Lakes), Canada, Europe, the Pacific, the Carribean, Central and South America, and the Middle East and Africa (name of port, origin or destination, deep or short sea, and mode); and a profile of container cargo and port services for all major ports in the above regions.

This study was conducted by Transport 2000, promoted by and on behalf of the Flexi-Van Corporation.

Transport 2000 4 Maria Loreto Court Pacheco Valle, Novato California 94947

Order from: Intermodal World Incorporated 4 Maria Loreto Court Pacheco Valle, Novato California 94947 21-074
REEFER SHIPS: A COMPUTER ANALYSIS OF THE PAST FIVE YEARS AND FUTURE REEFER GROWTH (JANUARY 1973--OCTOBER 1978) (ANALYSIS)

The researchers at Fairplay International Records and Statistics (FIRS) have produced this 100-page, A4 size print-out, bound in book form, analyzing the reefer market. The study details the growth in reefer ordering and delivery since January 1973. Included in the analysis are separate breakdowns of pure reefer, part reefer, reefer container and part reefer container information processed to October 31, 1978. The contents cover all vessels delivered by year of build and reducing DWT, all vessels currently on order by year of anticipated delivery and reducing deadweight; and, for each vessel, its DWT, cubic capacity, vessel type, owner, country of domicile, flag, vessel name, shipbuilder, cargo gear, price, and FIRS record number. Initial subscribers will be able to receive periodical updates at reduced rates.

Fairplay International Records and Statistics (FIRS)
\*Minster House, Arthur Street
London EC4R 9AX
England
100 pp. 1978

21-075
CONTAINERSHIPS: A COMPUTER ANALYSIS OF THE PAST FIVE YEARS AND FUTURE CELLULAR GROWTH (JANUARY 1973--OCTOBER 1978)
(ANALYSIS)

This Fairplay International Records and Statistics (FIRS) study has been produced in book form analyzing the container market. Important aspects are the inclusion of a separate breakdown of fully cellular, reefer, multi-purpose tonnage, and bulk/container carrier information processed to October 31, 1978. Contents include all vessels delivered by year of build and reducing TEU capacity; all vessels currently on order by year of anticipated delivery and reducing TEU capacity; annual total TEU capacity and world TEU capacity for vessels delivered/on order; and, for each vessel, its TEU, reefer TEU, vessel type, owner, country of domicile, flag, speed, vessel name, DWT, cargo gear, builder, and FIRS record number. Periodical updates will be available at reduced rates.

Fairplay International Records and Statistics (FIRS) Minster House, Arthur Street London EC4R 9AX England 200 pp. 1978 21-076
RECORD OF THE AMERICAN BUREAU OF SHIPPING (ABS)

This annual directory lists the vessel name, owner, dimemsions, tonnage, capacity, hull, machinery, builder, and classification of each vessel registered with ABS alphabetically by vessel name. Also included are a list of ABS members, offices, and committees; changed vessel names, indexed by former names; compound names, indexed by last names; dry docks, shipbuilders, and repair plants; and tables of load line markings for Great Lakes and oceangoing vessels.

American Bureau of Shipping 45 Broad Street New York, New York 10004

21-077
MERCHANT SHIPS: NEWBUILDINGS

This annual publication lists newbuildings worldwide for all vessels greater than 1,000 GRT. For each new ship, the following details are given: name of vessel, flag, type of vessel, gross tonnage, DWT, length overall, extreme breadth, maximum draft, number of screws, machinery, HP, machinery builders/designers, service speed, owners, shipbuilders, and yard number. There is also a cross reference system of yard productions.

Nichols Publishing Company P.O. Box 96 New York, New York 10024

#### SEE ALSO:

ANALYSIS OF LNG MARINE TRANSPORTATION FOR THE MARITIME ADMIN-ISTRATION. VOLUME I (ANALYSIS, FORECAST) 40-012 ARAB SHIPPING 1978: A SEATRADE GUIDE (ANALYSIS, FORECAST) 40-044 BASIC PETROLEUM DATA BOOK 40-061 CONTAINERISATION INTERNATIONAL YEARBOOK (ANALYSIS) ENERGY STATISTICS: A SUPPLEMENT TO THE SUMMARY OF NATIONAL TRANSPORTATION STATISTICS 40-070 EVALUATION OF MARITIME INDUSTRY ENERGY CONSUMPTION PROFILES (ANALYSIS) 10-008 EXPANSION OF THE SOVIET MERCHANT MARINE INTO THE U.S. MARITIME TRADES (ANALYSIS, FORECAST) 40-027 FINANCIAL AND STATISTICAL REPORT 40-056 INLAND RIVER RECORD 60-015 40-037 INLAND WATERBORNE COMMERCE STATISTICS LNG 1974-1990: MARINE OPERATIONS AND MARKET PROSPECTS FOR LIQUEFIED NATURAL GAS (ANALYSIS, FORECAST) 40-049 MARAD (YEAR): ANNUAL REPORT OF THE MARITIME ADMINISTRATION FOR FISCAL YEAR (YEAR) (ANALYSIS) 20-010 MARITIME CONTRACT IMPACT SYSTEM (MCIS) 51-001 10-004 MARITIME SUBSIDIES MARITIME TRANSPORT (ANALYSIS, FORECAST) 40-040 NATIONAL TRANSPORTATION TRENDS AND CHOICES (TO THE YEAR 2000) (ANALYSIS, FORECAST) 40-063 OFFICIAL STEAMSHIP GUIDE INTERNATIONAL 22-009 PERFORMANCE MONITURING SYSTEM (PMS) 60-008 REPORT OF THE COMMISSION ON AMERICAN SHIPBUILDING (ANALYSIS, 20-016 FORECAST) SEATRADE U.S. YEARBOOK 1979 40-069 SHIP REGISTER 31-011 SHIPPING STATISTICS AND ECONOMICS (ANALYSIS) 40-C26 STATISTICAL ABSTRACT OF THE U.S. 40-C42 TANKER ADVISORY CENTER, INCORPORATED 23-006 TRANSOCEANIC CARGO STUDY, VOLUME II (FORECAST) 40-053 TRANSPORTATION ENERGY CONSERVATION DATA BOOK: EDITION 2 (ANALYSIS, FORECAST) 10-012 U.S. LIFE LINES (ANALYSIS, FORECAST) 40-015 U.S. NAVAL INSTITUTE PROCEEDINGS NAVAL REVIEW ISSUE 53-602 WATER CARRIERS AND INLAND WATERWAYS IN AGRICULTURAL TRANSPORTA-TION (ANALYSIS, FORECAST) 60-012 WATERBORNE COMMERCE STATISTICS CENTER 40-01h WORLD FREIGHTS (ANALYSIS) 40-064 WORLD SHIP CHARTER MARKET FORECAST (ANALYSIS, FORECAST) 40~003

## 22 Commercial Vessel Movements

22-001
DAILY SHIPPING GUIDE

Established in 1920, the Guide is primarily of interest to shippers utilizing the Gulf ports. It provides arrival and departure information on steamships at ports in Alabama, Florida, Louisiana, Mississippi, and Texas. It also gives customs house entrances and clearances.

Guide Publishing Company 516 Natchez New Orleans, Louisiana 70130

Order from: Guide Publishing Company 516 Natchez New Orleans, Louisiana 70130

22-002
PANAMA CANAL COMPANY AND CANAL ZONE GOVERNMENT ANNUAL REPORT

The annual report includes the following data: Canal traffic, transits (summary of Panama Canal traffic, commercial ocean transportation by month, Canal traffic by flag of vessel, classification of Panama Canal traffic by type of vessel, laden and ballast traffic by flag of vessel, and transit in gross registered tonnage); Canal traffic, cargoes (principal commodities shipped through the Canal, origin and destination of Canal traffic by countries in principal trade areas, cargo shipments by trade routes, and principal Canal commodities by direction of movement); and Canal operating statistics.

Panama Canal Company Balboa Heights Canal Zone Order from: GPO, Item 360 22-003
VESSEL MOVEMENT SYSTEM (VMM)

Updated on a monthly basis, this data base includes the following elements: the date entered or cleared the U.S. port; the number of passengers; the U.S. customs district; the U.S. port name and code; the file or manifest number; the vessel name, flag of registry, type of service, rig, NRT, number, and draft; the ballast or cargo code; the country and subdivision of origin or destination; U.S. Census cargo code; the entrance or clearance code; and the operator code and nationality.

For information, call (202) 377-3758.

Maritime Administration, Office of Trade Studies and Statistics 14th and E Streets, NW Washington, D.C. 20230

22-06 U.S. CUSTOMS SERVICE: PROLOGUE (YEAR)

Relevant data included in this annual report are customs collections by region and district and by category; carriers and persons entering U.S. by region and mode of transportation; and cargo seizures by mode of transport and port of attempted entry.

For information, call (202) 566-8195.

U.S. Customs Service 1301 Constitution Avenue, NW Washington, D.C. 20229

Order from: U.S. Customs Service 1301 Constitution Avenue, NW Washington, D.C. 20220 22-005
SAINT LAWRENCE SEAWAY DEVELOPMENT CORPORATION ANNUAL REPORT

The report contains information on the operations and actions of the Corporation for the year of coverage. The narrative format with maps and illustrations includes one table of five-year cumulative data on Seaway traffic by type of vessel.

Saint Lawrence Seaway Development Corporation Department of Transportation 800 Independence Avenue, SW Washington, D.C. 20590

Order from: GPO

22-006
OCEANLINER CARGO SERVICE, U.S. PORTS TO: EUROPE, AFRICA, MIDDLE EAST, FAR EAST, CARRIBEAN, SOUTH AMERICA

The USDA hopes to review this document semi-annually or annually and to publish an addendum, or, in the case of major changes, to reissue an updated version of the publication. Data included in this issue are foreign destination ports in 5 world areas, U.S. loading ports listed in geographic order clockwise from the Northeast to the Great Lakes, and the foreign and domestic steamship companies and the type and frequency of their service to these ports. There is also a schedule of transit times.

For information, call (202) 447-7481.

A. Baron and J. Borell, Authors USDA Foreign Agricultural Service Washington, D.C. 20250 56 pp. 1977

Order from:
Foreign Agricultural Service
U.S. Department of Agriculture
Washington, D.C. 20250

22-007
DAILY COMMERCIAL NEWS AND SHIPPING GUIDE

Established in 1920, the daily Guide includes steamship schedules for vessels bound to and from West Coast ports.

C. A. Page Publishing Company 3181 Fernwood Avenue Linwood, California 90262

Order from: C. A. Page Publishing Company 3181 Fernwood Avenue Linwood, California 90262

22-008
TRANSPORTATION AND WORLD TRADE (FORECAST)

The Journal of Commerce and Commercial publishes a daily sailings list in its Transportation and World Trade section. This list includes sailings from the Atlantic Coast to Europe, Iceland, the Mediterranean, South, East, and West Africa, the Red Sea-Persian Gulf, India-Pakistan-Burma, South and Central American and Mexico, Atlantic Islands, the Far East, Indonesia, and Australia-New Zealand; and from the Gulf Coast, Pacific Coast, and Great Lakes ports to all of the relevant destinations listed above. Also included are future ship arrivals at Atlantic ports, incoming vessels at Gulf, Pacific, Great Lakes and East Canadian ports, a 4-day list of vessels due at New York, and sailed from/arrived at information for New York on a daily basis.

For subscription information, call (212) 425-1616, X274.

Twin Coast Newspapers, Incorporated 110 Wall Street New York, New York 10005

Order from: Journal of Commerce and Commercial 110 Wall Street New York, New York 10005 22-009
OFFICIAL STEAMSHIP GUIDE INTERNATIONAL

Established in 1932 and published on a monthly basis, the Guide contains schedules, fares, and port-to-port indices of interest to the steamship and air/sea industries. There is an alphabetical index of steamships, a pier directory, cruise lists, and a vessel tonnage list.

Transportation Guides, Incorporated 299 Madison Avenue New York, New York 10002

Order from: Transportation Guides, Incorporated 299 Madison Avenue New York, New York 10002

22-010 LLOYD'S VOYAGE RECORD

Available in hardcopy, microfiche, or magnetic tape form, this weekly record lists all world vessel movements for the week prior to publication.

The materials provided by the Lloyd's of London Press are being incorporated into the Marine Management System's Vessel Movements file and will be available on line from MMS in March 1979.

Lloyd's of London Press Limited Sheepen Road Colchester, Essex CO3 3LP England

Order from: Lloyd's of London Press Limited Sheepen Road Colchester, Essex CO3 3LP England

### SEE ALSO:

CONTAINER UTILIZATION (CON) 40-051
CONTAINERISATION INTERNATIONAL YEARBOOK WORLD MAP OF CONTAINER
ROUTES, SERVICES, AND OPERATORS 40-035
DOMESTIC TRADE SYSTEM 40-036
FOREIGN TRADE SYSTEM (ANALYSIS) 40-041
GUIDE TO FOREIGN TRADE STATISTICS, 1975 40-052
SHIP DATA BANK SYSTEM 40-029
TRAFFIC REPORT OF THE SAINT LAWRENCE SEAWAY (ANALYSIS) 40-054
WATERBORNE COMMERCE OF THE U.S. (ANALYSIS) 40-050

# 23 Commercial Vessel Casualties

23-001
POLLUTING INCIDENTS IN AND AROUND U.S. WATERS

The annual report contains data on discharges of oil, refuse, and other pollutants into navigable waters and contiguous zones of the U.S. Fourteen tables are included, with data for all incidents and for oil spills only. Particulars of the data are the number of incidents, the gallon volute of the spill, the percent of total by general area, the location of the incident, the type of material spilled, the source of the spill, the relative size of the discharge, and the incident month and cause.

U.S. Coast Guard 400 7th Street, SW Washington, D.C. 20590

Order from: GPO

23-002 CASUALTY RETURNS

Each monthly issue of statistics offers a summary of total world losses for the current year and 4 previous years, giving the number of ship casualties and the total of tennage lost; total losses by nationalities, 5-year summary; losses by nature of casualty; and total losses by nature of casualty for 5 years. The monthly data give the vessel name, flag/port of registry, GT, year built, owners (operators), voyage, cargo, and particulars of the casualty. These data are supplied in two categories: total losses and other important casualties.

The Liverpool Underwriters' Association Derby House, Exchange Building Liverpool 02 3QE England

Order from: The Liverpool Underwriters' Association Derby House, Exchange Building Liverpool 02 3QE England 23-003 LLOYD'S REGISTER OF SHIPPING CASUALTY RETURNS FOR THE QUARTER ENDED (MONTH/DAY/YEAR)

The data include all ships totally lost, broken up, etc. during the quarter by flag, number, GT, type of casualty, and percentage of total tonnage; details of the casualties for each ship including the ship's name and year of build, GT, flag, type, voyage, cargo, circumstances and place, and date; and steamships and motorships condemned, broken up, converted, etc. not consequent upon casualty during the quarter.

See entries for Marine Management Systems in this publication for information regarding magnetic tape and computer print-outs of Lloyd's materials.

Lloyd's Register of Shipping 71 Fenchurch Street London EC3M 4BS, England

Order from: Lloyd's Register of Shipping 71 Fenchurch Street London EC3M 4BS, England

23-004
COAST GUARD SAR (SEARCH AND RESCUE) STATISTICS (ANALYSIS, FORECAST)

The statistical tables show responses and/or sorties, lives lost, deaths and property loss prevention, and other assistance arranged by Coast Guard district. Also included are summaries by district, by SAR facility (with projections of future performance needs), by major SAR cutter, and by resource type, (aircraft, cutter, etc.). Five-year trend data is presented and analyzed.

For information, call (202) 426-2158.

U.S. Coast Guard 400 7th Street, SW Washington, D.C. 20590

Order from: GPO

23-005
OUTER CONTINENTAL SHELF EVENTS FILE (ANALYSIS)

The OCS file contains data on all spills of one barrel or more, blowouts, fires, explosions, fatalities, etc., related to extraction and transportation of oil at sea. Elements include the date, location, type of operation, probable causes, and a brief description of the event. It contains over 1,300 events and has a variable update frequency.

There is a hardcopy accident report, <u>Accidents Connected with</u> <u>Federal Oil and Gas Operations on the Outer Continental Shelf</u>, issued by the OCS Events file.

Department of Interior Geological Survey, Conservation Division National Center MS 620 Reston, Virginia 22092

23-006
TANKER ADVISORY CENTER, INCORPORATED

The Tanker Advisory Center gathers and disseminates data on vessel casualties, oil spills, and total losses based on public information from Lloyd's List. Data are available dating back to January 1, 1964 on all oil carriers in the world fleet of 6,000 DWT and over, and on world fleet gas carriers of any size. Quarterly statistics for oil carriers are published in the Tanker Advisory Center Newsletter; statistics on liquid gas carriers are not published. Information is coded and stored on G.E. time-sharing computers and is available worldwide through terminals, connected by local telephone number, or through Telex. The computerized data may be gotten directly from the Tanker Advisory Center or from Marine Management Systems.

See entry for Marine Management Systems in this publication for further information.

For information, call the Tanker Advisory Center (212) 628-7686.

Tanker Advisory Center, Incorporated 10 Eart End Avenue New York, New York 10021

23-007
OIL SPILL INTELLIGENCE REPORT (ANALYSIS)

A new weekly publication, the Report provides information on new cleanup techniques and equipment, research in pollution prevention and control, upcoming conferences, legislation, reports and papers, and complete data on every major oil spill in port or at sea, no matter where in the world the event There are also immediate reports issued on major took place. oil spills worldwide that give: date, location, and cause of spill; vessel or vessels involved; type and amount of oil spilled; weather and tidal conditions; response by government and industry officials; rescue, salvage, and cleanup operations; who is in charge; potential liabilities and claims; and early estimates of environmental and economic impacts. The Report is produced by a team of editors and international correspondents affiliated with the Center for Short-Lived Phenomena, Cambridge, Massachusetts.

For information, call toll free (800) 225-7640.

Order from:
Walter Cahners, Publisher
Oil Spill Intelligence Report
Cahners Publishing Company
221 Columbus Avenue
Boston, Massachusetts 02116

23-008
MARINE WEATHER LOG

This bi-monthly report provides descriptions of marine weather patterns and storm activity for the North Atlantic and North Pacific areas. Of particular interest are the chronological descriptions of marine storms and related ship casualties.

For information, call (202) 655-4000.

NOAA Environmental Data Service 3300 Whitehaven Street, NW Washington, D.C. 20007

Order from: GPO

23-009
POLLUTION INCIDENT REPORTING SYSTEM II (PIRS)

PIRS was developed for the Marine Environmental Protection Staff to generate a data base of pollution incidents. The data are transmitted either by terminals located in the various districts or by input forms sent to the headquarters central processing site. PIRS II reports all pollution incidents that occur within the U.S., Washington, D.C., and American territories. Principal data elements are types of pollution incidents, types of responses to these incidents, and enforcement data. The master file is updated monthly. The reports produced from the PIRS file include a major water body breakdown, location data, material data, cause data, source data, and a number of charts. Special reports for individual analysis and research are produced daily and upon request and are publicly available for a fee.

For information, call (202) 426-2438.

U.S. Coast Guard Information Systems Division 400 7th Street, SW Washington, D.C. 20590

23-010 AMERICAN BUREAU OF SHIPPING CASUALTY DATA (ANALYSIS)

In accordance with its function as a seaworthiness and marine plans classification society, the ABS provides casualty survey services to vessel owners. The basic instrument for data collection is a full narrative report from the surveyor. The following data are extracted from the report for computer input: file number, survey date, report number, year of ship's build, gravity of the problem, the ship's hull number, its tonnage, the name of the shipyard where built, the ship's name and type, the ship's flag, damage information, and a descriptive commentary of the casualty. The services of the ABS are usually paid for by the owner of the vessel and in most cases written permission is required from the owner before the data can be released.

For information, call (212) 785-9755.

American Bureau of Shipping 45 Broad Street
New York, New York 10004

23-011
NATIONAL TRANSPORTATION SAFETY BOARD ANNUAL REPORT TO CONGRESS (ANALYSIS)

The Board generally delegates accident cause investigation to the U.S. Coast Guard subject to review by the Board. The Annual Report contains data on the marine investigations conducted by the Board during the year, which usually number less than 10, and summary statistics on marine casualties for the year, including those investigated by the USCG.

National Transportation Safety Board 800 Independence Avenue, SW Washington, D.C. 20594

Order from: GPO

23-012

ANNUAL REPORT OF THE SECRETARY OF TRANSPORTATION ON HAZARDGUS MATERIALS CONTROL (ANALYSIS)

The annual report includes a summary of hazardous materials incident reports involving death or injury by mode of transport; Coast Guard data on unintentional releases of hazardous materials aboard tank vessels, vessel casualties, waterfront casualties and pollution responses; special permits and exemptions granted by mode of transportation, including a breakdown on those issued by the Coast Guard; hazardous materials regulations violations and enforcement actions; hazardous materials inspections of carriers, shippers, and container manufacturers; Coast Guard port and merchant marine inspections; commodities most frequently named in hazardous materials carriers incident reports; Coast Guard marine casualties involving bulk hazardous materials carriers for the fiscal year; and a listing of projects, publications, and other materials of the Coast Guard concerning hazardous materials.

Department of Transportation, Materials Transportation Bureau 400 7th Street, SW Washington, D.C. 20590

Order from: GPO

23-013 U.S. SALVAGE CASUALTY DATA (ANALYSIS)

U.S. Salvage provides its survey services to marine underwriters, the Navy, the Military Sealist Command, NASA, and to owners of marine equipment. They collect a variety of repair and loss data and analyze it, extracting certain elements to code for computer processing. The coded data includes vessel name, the coding date, the type of code, the casualty date and location, the survey date, the repair area, the total actual repair cost, the alleged cause of the casualty, the affected elements, and the vessel's repair atetus.

For information, call (212) 233-7400.

U.S. Salvage Association, Incorporated 99 John Street New York, New York 10038

23-014
CHEMICAL HAZARDS RESPONSE INFORMATION SYSTEM (CHRIS) (ANALYSIS)

The CHRIS system is composed of 4 manuals each of which concerns a different aspect of USCG response to a marine casualty involving hazardous chemicals. The manuals are 1) Immediate responses—what the USCG should do when arriving at the scene of the accident; 2) Data—chemical, physical, biological, and toxological—900 chemicals listed with 84 data points for each, including properties of the chemicals, their toxicity, and other detailed information; 3) Hazard assessment—definition of the spill in terms of a series of 18 models (some of which are still theoretical and in the experimental stage) on how the spill will behave (downwind problems, water toxicity, flammability hazards, etc.); 4) Specific responses—cleanup procedures, equipment availability, etc.

Manuals 1, 2, and 4 have been publicly available from the GPO, but are presently out of print awaiting the update of Manual 2 to include all 900 substances on which the USCG has gathered data. Manual 3 is as of now unavailable to the general public, but is available to government agencies. Following the testing of all 18 models, the USCG may publish it for general use. For information, call (202) 426-1058.

USCG, Office of Research and Development 400 7th Street, SW Washington, D.C. 20590 23-015
HAZARD ASSESSMENT COMPUTER SYSTEM (HACS) (ANALYSIS)

The HACS data base is the computerization of the Chemical Hazards Response Information Service Manual 3. It is currently available only to USCG R&D and the National Response Center (NRC) 24-hour manned line for receiving reports on accidents. The NRC has mainly been used for oil spill reports which are then run through HACS. Incorporated in HACS are the 18 different spill models in Manual 3 and the chemical data in Manual 2. Each accident is analyzed and fit into a It can be used to set up a tree-like model which will model. show how each step of the accident will proceed -- how quickly the cargo will disperse, the expected extent of the spill and its effects on the marine environment, etc. Inputs into HACS include all data available on the spill--the time of the spill, weather and sea conditions, location, vessel and hull types.

For information, call (202) 426-1058.

USCG, Office of Research and Development 400 7th Street, SW Washington, D.C. 20590

23-016
MARINE SAFETY INFORMATION SYSTEM (MSIS) (ANALYSIS)

The MSIS is being developed for the USCG by the Columbus laboratory of Battelle, Inc. The system design was completed in 1975-76; the development of the experimental prototype is in progress; and the testing and evaluation and operational deployment phases are expected to be completed by fiscal year 1981. It is an interactive system, linking system users together as both suppliers and receivers of information. The basic data content is a comprehensive history of Coast Guard involvement and findings relative to individual vessels. Within this framework, detailed safety profiles for vessels and facilities can be developed, analyzed, and compared; current status relative to regulatory actions can be generated; common areas can be detected; pending actions can be monitored; and administrative functions can be performed.

For information, call (202) 426-1058.

U.S. Coast Guard 400 7th Street, SW Washington, D.C. 20590 23-017
VESSEL CASUALTY DATA FILE (ANALYSIS)

This computerized bank contains information on merchant ship casualties since 1963 and is updated annually on a fiscal year basis. A casualty as defined in the Federal Code is any occurrence that meets one of the following criteria: damage of \$1,500 or more; grounding; any accident that renders a vessel unseaworthy; any accident resulting in loss of life; or any injury that causes a seaman to be laid up for 72 hours or more. Reports on casualties are filed with local Marine Safety Offices and are then investigated, with the results of the investigation being filed with Coast Guard headquarters in The report is reviewed and entered into the file. Data in the file cover all U.S.-flag ships regardless of location at the time of the casualty and all non-U.S. flag ships in U.S. territorial waters. Particulars of the data include: vessel ID and code; time of day of the accident; weather and sea conditions at the time of the accident; ship's particulars, including its dimensions, GT, and hull type; information on personnel; location of casualty by type of water body and specific geographical location; codes for the cause and contributing factors; and results of the casualty, i.e., the number of injuries, an estimate of the dollar damages, pollution, and whether or not there was a total loss. Inquiries are answered preferably by letter that the Coast Guard can maintain on file. Standard charges for print-outs are determined by the Federal Code computer rates.

For information, call (202) 426-9561.

U.S. Coast Guard Office of Merchant Marine Safety Information and Analysis Staff 400 7th Street, SW Washington, D.C. 20590

SEE ALSO:

LOSSES AND SCRAPPINGS 21-043
MARINE MANAGEMENT SYSTEMS 21-070
MARITIME TRANSPORT (ANALYSIS, FORECAST) 40-040
NATIONAL TRANSPORTATION TRENDS AND CHOICES (TO THE YEAR 2000)
(ANALYSIS, FORECAST) 40-063
SHIPSTATS WEEKLY REPORT 21-061
STATISTICS OF CASUALTIES 52-002

# 30 Government Vessel Construction and Repair

30-001
NAVAL SHIP PROCUREMENT PROCESS STUDY: FINAL REPORT (FORECAST)

The following data are included in the study: U.S. Navy new construction awards, FY 1960-1978; the Navy five-year ship-building program by ship type and dellar value, 1979-1983; Navy new construction ship deliveries; employment history and levels at the eleven major shipyards; shipbuilding labor at all private shipyards; total capital investment at the eleven ship-yards; outstanding major shipbuilding claims; forecasts of manpower and projected workload at nine major shipyards; data on contracting policies, contract types and clauses; data on management of ship construction contracts, including dollars expended and workload versus work force; total change orders; and backlog and aging of undefinitized directed changes, January 1976--March 1978.

Assistant Secretary for Manpower, Reserve Affairs and Logistics Department of the Navy Washington, D.C. 20301

Order from: GPO

### SEE ALSO:

ANNUAL REPORT OF THE SHIPBUILDERS COUNCIL OF AMERICA 20-006 ANNUAL REPORT ON THE STATUS OF SHIPBUILDING AND SHIP REPAIR INDUSTRY OF THE U.S. (ANALYSIS) 20-018 CURRENT STATUS OF SHIPYARDS, 1974 (ANALYSIS, FORECAST)

20-008

A GUIDE TO THE SOVIET NAVY (ANALYSIS) 31-004

THE LABOR MARKET OF THE U.S. SHIPBUILDING INDUSTRY (ANALYSIS) 50-006

MARINE ENGINEERING/LOG ANNUAL MARITIME REVIEW AND YEARBOOK ISSUE 21-033

NATIONAL TRANSPORTATION TRENDS AND CHOICES (TO THE YEAR 2000) (ANALYSIS, FORECAST) 40-063

RELATIVE COST OF SHIPBUILDING: REPORT TO THE CONGRESS ON THE RELATIVE COST OF SHIPBUILDING IN THE VARIOUS COASTAL DISTRICTS OF THE U.S. (ANALYSIS) 20-012

REPORT OF THE COMMISSION ON AMERICAN SHIPBUILDING (ANALYSIS, FORECAST) 20-016

REPORT ON SURVEY OF U.S. SHIPBUILDING AND REPAIR FACILITIES (ANALYSIS, FORECAST) 20-002

STATISTICAL QUARTERLY (FORECAST) 20-019

## 31 Government Vessel Characteristics

31-001
JANE'S FIGHTING SHIPS (FORECAST)

The latest edition contains over 3,000 photographs, silhouettes and plan drawings and lists over 15,000 ships in more than 110 countries. The ships are classified in a standard format making numerical comparison among the countries possible. The section on the strength of the fleet from major countries provides in one table the active fleet, new construction, and future programs.

J. E. Moore, Editor Macdonald and Jane's Publishers Limited Paulton House, 8 Shepherdess Walk London N1, England

Order from: Franklin Watts, Incorporated 730 5th Avenue New York, New York 10019

31-002
WEYER'S WARSHIPS OF THE WORLD

This annual provides fleet lists with drawings and/or photographs of each type of ship arranged by country. The vessel data includes the ship's number and type, its name, armor, displacement, speed, armament, endurance, horsepower, fuel, engine and boiler types, length, maximum width, building yard, and crew. Types of vessels included are aircraft carriers, battleships, cruisers, destroyers, frigates, submarines, minelayers, minesweepers, small fighting vessels, landing vessels, and auxiliary vessels.

The English edition is published by the U.S. Naval Institute Press.

J. F. Lehmanns Verlag Munich, Germany

Order from: U.S. Naval Institute Press Annapolis, Maryland 21402 31-003 FLOATING PLANT LIST

Updated periodically, the list includes all civil owned and/or operated items of floating plant employed in Corps of Engineers civil works activities. There are complete category and alphabetical numerical indexes listing floating plants and their principal dimensions, capacities, ratings, special equipment, radio call letters, date of construction, district of ownership, bridge clearance requirements, and other particulars.

U.S. Army Corps of Engineers Office of the Chief of Engineers Washington, D.C. 20413

Order from: U.S. Army Corps of Engineers, Office of the Chief of Engineers ATTN: HDQA (DAEN-CWO-S) Washington, D.C. 20413 EP1125-2-1

31-004 A GUIDE TO THE SOVIET NAVY (ANALYSIS)

The book includes over 300 line drawings, 170 photographs and 12 maps illustrating Soviet ships, aircraft, weapon and electronic systems, construction programs, bases, and ports employed by the Soviet Navy. It details almost all aspects of the Navy, including the organization of its hierarchy and an examination of its shipbuilding program.

This is the second edition.

S. Breyer, Author U.S. Naval Institute Press Annapolis, Maryland 21402 624 pp. 1977

Order from: U.S. Naval Institute Press Books Annapolis, Maryland 21402 31-005 OCEANOGRAPHIC SHIP OPERATING SCHEDULES

The annual report includes planned schedules, the number of spaces for visiting scientists, chief scientists; names, and objectives and general areas of operation for all government—owned or sponsored oceanographic ships of the U.S.

Oceanographer of the Navy 200 Stovall Street Alexandria, Virginia

Order from: GPO

31-006
THE SHIPS AND AIRCRAFT OF THE U.S. FLEET (ANALYSIS, FORECAST)

This 11th edition includes general data on ships and aircraft; an analysis of the current state of the fleet; predictions of future ship classes, personnel requirements, and fleet organization; and naval air organization. There are over 1,000 dated photographs with details of ships, aircraft, and slipboard weapons and sensors. Vessels of the Navy, Marine Corps, USGC, Naval Reserve Force, Military Sealift Command, and National Oceanic and Atmospheric Administration are covered. There is also a ship names index.

Also available are facsimile reprints of 4 of the earliest editions, 1939, 1941, 1942, and 1945, edited by James C. Fahey.

N. Polmar, Editor U.S. Naval Institute Press Annapolis, Maryland 21204 359 pp. 1978

Order from: U.S. Naval Institute Press Annapolis, Maryland 21204 31-007
THE ENCYCLOPEDIA OF THE WORLD'S WARSHIPS (ANALYSIS)

Organized by country with 350 illustrations, the Encyclopedia gives the class of ship and the number of ships in each class, ship displacement, dimensions, armament, armour, machinery, power, performance, fuel capacity, crew, and career. All of the world's warships in service from 1900 to 1977 are covered.

H. Lyon, Author Crescent Books, Division of Crown Publishers 1 Park Avenue New York, New York 10016 584 pp. 1978

Order from: Crescent Books 1 Park Avenue New York, New York 10016

31-008
WARSHIPS AND NAVAL SYSTEMS (ANALYSIS, FORECAST)

This special series report includes data on the current status of the world's navies, with particular emphasis on the U.S. and U.S.S.R. Aircraft carriers, destroyers, frigates, corvettes, conventional fast patrol boats, hydrofoil fast patrol boats, propulsion systems, data handling systems, fire control systems, armament, and electronic warfare equipment are detailed in the different chapters of the report. Each chapter offers statistics on the current state of the vessels or systems and information on developments underway or planned.

International Defense Review Special Series 208 pp. 1976

Order from: Interavia, A.S. 86, Avenue Louis-Casai P.O. Box 162 1216 Cointrin, Geneva Switzerland 31-009 COAST GUARD LIGHT LIST

The five volumes include a listing of lights, fog signals, buoys, and day beacons maintained by or under the authority of the Coast Guard along the coast line and inland waterways.

U.S. Coast Guard 400 7th Street, SW Washington, D.C. 20590 1,637 pp. 1974

Order from: GPO S/N-5012-00073, 74 75, 76, 77

31-010 EXPANSION IN THE FAST PATROL BOAT MARKET, PARTS ONE AND TWO (ANALYSIS, FORECAST)

Part I of this report covers missile-armed craft and Part 2, gun-armed craft. The survey looks at a wide variety of fast patrol boats in service and a number of projects for future craft. There are fold-out data tables provided for each part that list, by country, the FPB's in operation or under construction in the world. Details include the number owned by each country, their class, builder, displacement, dimensions, armament, propulsion, maximum speed, endurance radar/fire control, hull type, complement, and date delived or expected delivery date.

International Defense Review
Part I: Vol. 10, No. 1, January 1977
Part II: Vol. 10, No. 6, December 1977

Order from: Interavia, S.A. 86, Avenue Louis-Casai P.O. Box 162 1216 Cointrin, Geneva Switzerland 31-011 SHIP REGISTER

The Ship Register is published quarterly, with each update cancelling all previous issues. The data covers the principal characteristics of U.S. Naval ships operated by the MSC, and U.S.-flag oceangoing merchant ships, over 1,000 GT, owned by the U.S. or its citizens. Ships are listed in 3 main groups: alphabetical listing of U.S. Naval ships operated by the MSC (active or inactive); alphabetical listing of merchant ships in an operating status including ships repairing or temporarily out of service; and non-operational ships in the National Defense Reserve Fleet maintained and preserved for purposes of national defense by MarAd. These latter ships are grouped according to layup sites and arranged in each group according to types, i.e., transports and combination passenger-cargo, ex-Naval auxiliaries, tankers, refrigerated ships, and dry cargo carriers. Detailed ship characteristics covered include ship name, IRCS, class, design, year of build, GT, LOA, draft, DWT, speed, fuel, breadth, radius, dry cargo capacity, reefer capacity, total passenger and/or troop accommodations, liquid cargo capacity, capacity of the heaviest boom/crane in tons, owner's name, and whether damaged, immobilized, or converting, if applicable.

For information, call (202) 282-2919. Military Sealift Command Department of the Navy Washington, DC 20390

Order from: Commander, Military Sealift Command Washington, D.C. 20390 MSC P504

31-012
DEPARTMENT OF THE ARMY TECHNICAL MANUALS

The Army publishes a number of manuals that list and describe marine equipment that is in use by the Army as a supplement of the Navy's Military Sea Transportation Service. For example, Manual TM 55-500, titled Marine Equipment Characteristics and Data, includes specifications and diagrams of harbor craft, landing craft, and amphibious lighters.

U.S. Department of the Army Washington, D.C.

31-013
DATA BOOK FOR BOATS AND CRAFT OF THE U.S. NAVY

The following types of craft are included: patrol craft; riverine craft; amphibious warfare craft; mine countermeasures craft; mine warfare ships; officer/personnel boats; utility/cargo boats; hydrographic and sound survey boats; miscellaneous boats; and service craft. The data elements are craft ID, principal characteristics (length, beam, height, full load and light load displacement, hoisting weight, total potable water capacity, total fuel capacity, and crew), machinery characteristics (main engines, diesel auxiliary generator, electrical system, propeller, and combat and cruising engines), and a diagram of the profile and arrangement of each type.

Naval Ship Engineering Center Combatant Craft Engineering Department Norfolk, Virginia 23511

Order from: GPO, NAVSEA 0900-LP-084-3010

31-014
COMBAT FLEETS OF THE WORLD 1978/1979: THEIR SHIPS, AIRCRAFT AND ARMAMENT (ANALYSIS)

This book contains information on and specifications of many of the world's newest ships, including the U.S. Nimitz-class carrier DWIGHT D. EISENHOWER and patrol hydrofoil missile (PHM) ship PEGASUS, as well as plans, photographs, and characteristics of British, Italian, and French VTOL (vertical takeoff and landing) carriers. It is organized by country with the major fleets of the world receiving the most extensive coverage. Also included are 1,500 photographs, detailed line drawings and charts.

J. L. Couhat U.S. Naval Institute Press Annapolis, Maryland 21402 666 pp. 1978

Order from: U.S. Naval Institute Press Annapolis, Maryland 21402 31-015
REGISTER OF CUTTERS OF THE U.S. COAST GUARD

The Register is annually published to show the status of vessels as of June 30. Particulars of the cutters listed in the publication include class, number, name, year built, permanent stations, length, beam, draft, displacement, propulsion, screws, HP, maximum range and speed, boom capacity, status, and primary employment.

For information, call (202) 426-4927.

U.S. Coast Guard 400 7th Street, SW Washington, D.C. 20590

31-016
POLAR RESEARCH VESSEL, A CONCEPTUAL DESIGN FOR NATIONAL SCIENCE FOUNDATION, OFFICE OF OCEANOGRAPHIC FACILITIES AND SUPPORT AND DIVISION OF POLAR PROGRAMS

The study was conducted by the University of Alaska Institute of Marine Sciences on behalf of the University National Ocean-ographic Laboratory System (UNOLS) in cooperation with John W. Gilbert Associates, Incorporated, Boston, and ARCTEC, Incorporated, Columbia, Maryland. It includes an analysis of the needs and prospects for polar research vessels, data on performance requirements (priorities, design features, and operational capabilities), and a summary of design decisions (bow, stern, and mid-body shape, icebreaking and ramming ability, propeller and rudder configurations, machinery, hull structure, weight, stabilization, cost estimates, and pollution prevention). A number of drawings and graphs on general ship arrangement, inboard profile, outboard profile, icing stability, shell plate, and construction are presented.

R. Elsner and J. Dermody, Authors
University of Alaska,
Institute of Marine Sciences
and
J. Leiby, Author
Woods Hole Oceanographic Institution
University of Alaska, Institute of Marine Sciences
College, Alaska 99701
May 1977

Order from: NTIS NSF Grant OCE76-10089 31-017
UNIVERSITY NATIONAL OCEANOGRAPHIC LABORATORY SYSTEM (UNOLS)

UNOLS includes 17 member universities that operate 31 vessels ranging in size from 65 to 245 feet. Its annual report lists the UNOLS fleet by vessel age and size and gives the vessel's current condition, year built, age weighting factor, date projected to leave the fleet, and displacement in long tons. Also included is a listing of vessel location, number of scientists on board, owner's name, and the ship scheduling ontact.

University National Oceanographic Laboratory System (UNOLS) National Oceanographic and Atmospheric Administration Washington Science Center Rockville, Maryland

### SEE ALSO:

AN ANALYSIS OF PORTS FOR NATIONAL DEFENSE U.S. ARMY UNIT DEPLOYMENTS (ANALYSIS) 01-018 CURRENT STATUS OF SHIPYARDS, 1974 (ANALYSIS, FORECAST)

20-008
MARINE ENGINEERING/LOG ANNUAL MARITIME REVIEW AND YEARBOOK
ISSUE 21-033

MARITIME SUBSIDIES 10-004

OCEAN YEARBOOK (ANALYSIS) 21-015

RESERVE SALVAGE VESSELS OF THE U.S.A.--PRELIMINARY REPORT 21-026

SEA TECHNOLOGY HANDBOCK DIRECTORY 21-014
U.S. NAVAL INSTITUTE PROCEEDINGS NAVAL REVIEW ISSUE 53-002
VESSEL INVENTORY REPORT 21-016

## 40 Cargo Movements and Trade Routes

40-001

FORECASTING MARINE TRANSPORTATION REQUIREMENTS FOR IMPORTS TO MIDDLE EASTERN OIL-EXPORTING COUNTRIES: 1976-1985. FINAL REPORT (ANALYSIS, FORECAST)

Volume II contains the final report of the study that projects various oil importing requirements for Middle Eastern and North African cil-exporting countries through 1985. Data contained in this volume and in the appendix and supplement include: an aggregate capacity rating of commercial ports by country, 1980 and 1985; projected port status of OPEC countries in the Middle East and North Africa, 1980 and 1985; projected traffic by transport system for OPEC trade, 1980 and 1985; trade volume of Middle Eastern and North African OPEC members; aggregate import volume and U.S. share for Middle Eastern and North African OPEC countries by major commodity groups; likely completion schedules for planned commercial port facilities by country; projected volume of imports and nonfuel exports by country; projected imports from the U.S. for 1980 and 1985 by country; statistics for ports performance and cargo handling for each country; throughput and transit at major OPEC country ports; distance comparisons for Suez vs. other routes; Suez traffic statistics; projected nonfuel exports by maritime transport for each country; and projections of exports for non-OPEC countries in the Middle East and North Africa. Numerous maps of the Middle East, North Africa, and OPEC trade routes are also presented.

Also available are Volume I, Executive Summary, PB-265 046/AS; Volume III, Supplement to Volume I, PB-265 048; and Volume IV, Appendix, PB-265 049.

CACI, Incorporated 1815 North Fort Meyer Drive Arlington, Virginia 22209 Vol. 2 May 1977

Order from: NTIS PB 265 047/AS

40-002 FOREIGN TRADE CARGO MOVEMENTS BY VESSEL TYPES

This study, contracted by MarAd, is due to be published in Summer 1979.

Temple, Barker and Sloane, Incorporated 15 Walnut Street Wellesley Hills, Massachusetts 02181

40-003 WORLD SHIP CHARTER MARKET FORECAST (ANALYSIS, FORECAST)

Established in 1970, this forecast includes annual projections of tonnage requirements for bauxite alumina, general cargo, coal, crude oil, iron ore, LNG, phosphate rock, and product oil. Also covered are bulk carriers, container-ships, LASH/SEABEE, and other types of sea transport.

Alcan Shipping Services, Limited 1060 University Street Montreal, Quebec H3B 3A3 Canada

Order from: Alcan Shipping Services, Limited 1060 University Street Montreal, Quebec H3B 3A3 Canada

40-004
IMPORTED CRUDE OIL AND PETROLEUM PRODUCTS

The data for this publication are derived from the public information file of the Office of Oil Imports, Department of Energy. Included is information on crude oil imports and major products in the following detail: importer, port of entry, country of origin, recipient, destination, quantity in barrels, API gravity, and, in the case of crude imports, sulphur content. The product section lists the commodity imported, and for residual imports also shows the viscosity.

For information, call (202) 457-7160.

American Petroleum Institute 2101 L Street, NW Washington, D.C. 20006

Order from: American Petroleum Institute 2101 L Street, NW Washington, D.C. 20006 40-005 PRODUCT DIRECTORY, MHI MEMBERS

The MHI is a national trade association of manufacturers of material handling equipment and systems. Their products are used extensively in the area of maritime transportation. The Directory is organized into 2 sections: Product Groups, which details the different categories of equipment produced by members; and Member Companies, which lists the name of each member company, address, phone number, Telex, and a description of products manufactured.

The Material Handling Institute, Incorporated 1326 Freeport Road Pittsburgh, Pennsylvania 15238

Order from: The Material Handling Institute, Incorporated 1326 Freeport Road Pittsburgh, Pennsylvania 15238

40-006
DOMESTIC AND INTERNATIONAL TRANSPORTATION OF U.S. FOREIGN
TRADE: 1976. PRELIMINARY REPORT (ANALYSIS)

This study is sponsored by the Department of Transportation, the U.S. Army Corps of Engineers, and the Maritime Administration. The final report public-use tape is due in October 1978 and the final issued report in December 1978. The data contained in the preliminary issue include statistics for 1976 on the following: U.S. interior origin of exports and destination of imports; the domestic mode of transportation between significant points; the commodity weight, value, and volume; the international and domestic shipping costs; the use of containerization and other handling characteristics; and terms of sale (c.i.f., etc.). All commodities in U.S. foreign trade are covered with the exception of bulk grains and crude oil.

Bureau of the Census Washington, D.C. 20233 55 pp. July 1978

Order from: Bureau of the Census, Subscriber Services Washington, D.C. 20233 40-007
BULLETIN OF TRANSPORT STATISTICS FOR EUROPE

Tabular data presented in this annual report include population and GNP figures, principal modes of inland trade transportation, international transport by mode of transport, international travel statistics, railway and road statistics, international river transport, seaport data, and combined transport and oil pipeline statistics. The data included are for European countries, Canada, and the U.S. and are organized in timeseries form.

United Nations Economic Commission for Europe Geneva, Switzerland

Order from: U.N. Publications Sales Office United Nations New York, New York 10017

40-008 CONTAINERISATION INTERNATIONAL YEARBOOK (ANALYSIS)

The different sections include an assessment of progress in container transportation to date; a list of world container terminals and their comparative traffics expressed in TEUs; country-by-country surveys; a guide to company operations and fleets; a route analysis of deep sea operators and short-sea operators and combined transport operators; international rail services; land and mini bridges; a detailed vessel-by-vessel register of ships in service and new buildings; an equipment guide; unit load data; a list of leasing and repair companies; an insurance guide; and a list of international organizations and associations connected with containerized transport.

Containerisation International Chestergate House, Vauxhall Bridge Road London SWIV 1HF, England

Order from:
National Magazine Company Limited
Chestergate House, Vauxhall Bridge Road
London SWIV 1HF, England

40-009 TRANSPORT STATISTICS IN THE U.S.

This annual report, released in sections throughout the year, provides detailed statistics on traffic, operations, equipment, finances, and carriers subject to the Interstate Commerce Act. Part 5 covers carriers by water and gives the following information: selected financial and operating data for individual Class A and Class B carriers; number of units, cargo deadweight, and certified passenger carrying capacity of floating equipment in service of Class A carriers; selected financial and operating data by individual maritime carrier; number of tons of domestic revenue freight carried; and freight revenues for Class A, Class B, and maritime carriers.

Interstate Commerce Commission Constitution Avenue and 12th Street, NW Washington, D.C. 20423

Order from: GPO

40-010
INTERSTATE COMMERCE COMMISSION ANNUAL REPORT TO CONGRESS

The ICC issues its annual report on commission activities in regulating passenger and freight rates, operating rights, and financial and management practices of interstate carrier industries. Included are narrative reports on regulatory case and review activities for each carrier industry, enforcement actions, and internal administration. Data relevant to the maritime industry include intercity ton-miles, public and private, by mode of transportation; federally regulated and total intercity ton-miles by mode; Class A and Class B water carriers by inland and coastal waterways (income statement, financial ratios, and employee data); and maritime carriers (income statement, financial ratios, and employee data).

Interstate Commerce Commission Constitution Avenue and 12th Street, NW Washington, D.C. 20423

Order from: GPO, Item 673

40-011 FOREIGN AGRICULTURAL TRADE OF THE U.S.

This monthly report includes current data on the quantity and value of U.S. agricultural exports and imports by commodity and country, and also provides selected prices of international significance.

Economic Research Service Department of Agriculture 500 12th Street, SW Washington, D.C. 20250

Order from: GPO Item 42-E

40-012
ANALYSIS OF LNG MARINE TRANSPORTATION FOR THE MARITIME ADMINISTRATION. VOLUME I (ANALYSIS, FORECAST)

This report is an analysis of the transportation of liquefied natural gas by sea. It describes the potential size of the LNG tanker fleet required for projected U.S. LNG imports and the risks associated with U.S. LNG ship construction, operation, and LNG importation. Specifically, it includes risks such as the shipbuilder's potential for overrun, the operator's exposure to off-hire, and the containment tank subcontractor's chances of building excess capacity.

See also Volume 2, COM-74-11685.

Booz-Allen Applied Research, Incorporated 4733 Bethesda Avenue Bethesda, Maryland 20014 and Maritime Administration 14th and E Streets, NW Washington, D.C. 20230 307 pp. November 1973

Order from: NTIS, COM-74-11684/9SL 40-013
INTERNATIONAL ECONOMIC INDICATORS

Included in the trade section of these quarterly reports are data for the U.S. on the following: the balance of payments; annual and quarterly export and import values in current and constant dollars; annual, quarterly, and monthly total imports and exports; annual and quarterly petroleum imports; annual and quarterly shares of total world exports; and annual and quarterly export orders.

Domestic and International Business Administration Department of Commerce 14th and E Streets, NW Washington, D.C. 20230

Order from: GPO

40-014
WATERBORNE COMMERCE STATISTICS CENTER (WCSC)

The U.S. Army Corps of Engineers Waterborne Commerce Statistics Center is responsible for collecting, compiling, and distributing all waterborne commerce statistics within the policies approved by the Office of the Chief of Engineers under authority of various laws dating from 1866 to 1932. Vessel operating data are collected by each Corps District from reports filed by operators within their boundaries. The districts then transcribe the district code, vessel number, NRT, vessel type, type of service, and operator number onto the reports and forward them to the WCSC within seventy-two hours of receipt. Data provided by the actual reports include the names of the shipping and receiving ports and docks, type of traffic, and commodity type and tonnage. Foreign trade data are obtained from the Bureau of the Census and incorporated into the WCSC system. Requests for data not otherwise available in published reports may be made to the WCSC. Release of data is subject to the restrictions of disclosure policy and reimbursement is required for additional costs incurred.

U.S. Army Corps of Engineers Waterborne Commerce Statistics Center Lower Mississippi Valley Division Vicksburg, Mississippi 40-015 U.S. LIFE LINES (ANALYSIS, FORECAST)

This study, the seventh in a series begun in the 1950s, is a detailed compendium of facts and figures on 26 of 71 raw materials generally considered critical for U.S. industrial, economic, and defense needs. The 26 are an across the board sample and not necessarily those in shortest supply. Among the materials covered in this edition are petroleum, zinc, tin, chromite, cobalt, rubber, iron cre, and manganese ore. Statistics include domestic production figures, import totals, major source countries, current status and projected needs for transoceanic and overland transport of the materials, the growth of U.S. trade, the free world energy deficit, U.S. foreign exports and jobs, and U.S. dependence on foreign carriers.

Department of the Navy Washington, D.C. 20301 1978

Order from: GPO 008-050-00164-0

40-016 CHANGING PATTERNS OF U.S. OCEAN LINER CARGO (WITH PROJECTIONS TO 1985) (ANALYSIS, FORECAST)

This two volume study provides a detailed statistical analysis of trade patterns between the various regions of the U.S. and foreign ports with emphasis on the direction of change taking place in respect to these patterns. Over one hundred tables provide data for the base year (1974) on cargo volume and flow between each region and its primary foreign trade areas. The forecast is given not only in terms of total expected U.S. trade along certain trade routes, but is also provided in a region-by-region breakdown.

The study was prepared for Frost and Sullivan, Incorporated.

John R. Immer Work Saving International 1638 19th Street, NW Washington, D.C. 20009 2 Vols. 1975

Order from: Frost and Sullivan, Incorporated 106 Fulton Street New York, New York 10038 40-017 DIRECTION OF TRADE ANNUAL

The annual publication of the IMF presents data on the exports and imports of 151 countries for the 1970s in a yearly breakdown. Also included are area and world aggregates in summary table form.

The 13th edition was published in 1978.

International Monetary Fund (IMF) General Statistics Division, Bureau of Statistics Washington, D.C. 20431

Order from: The Secretary International Monetary Fund Washington, D.C. 20431

40-018 WESTINFORM MONTHLY TANKER BULLETIN

The Bulletin provides information on tanker chartering activities for each month by means of seven tables and four graphs showing the following information: 1) Dirty cargoes fixed in the current and preceeding months for loading in the current and following months; 2) Single voyage market for the current month, clean and dirty by route; 3) Single voyage tanker freight rates by cargo size and route; 4) Average freight rate assessments; 5) Total time chartering and consecutives; 6) average time charter rates paid by tanker size; and 7) State of forward period cover (including consecutives); plus the following graphic information: a) Single voyage tanker chartering; b) Dirty cargoes fixed in the current and average rate worldscale; c) Single voyage tanker freight rates (routes ex Caribbean); and d) Single voyage tanker freight rates (routes ex Mediterranean and West Africa).

Westinform Service 9 Cork Street London WIX 1PD England

Order from:
Westinform Service
9 Cork Street
London WIX 1PD
England

40-019 CHARTERING ANNUAL

This yearly report includes data on general freight, coal, grain, sugar, ore, and tanker freight movements within and to and from the U.S.

Maritime Research Incorporated 11 Broadway New York, New York 10004

Order from: Maritime Research Incorporated 11 Broadway New York, New York 10004

40-020
INTERSTATE COMMERCE COMMISSION WAYBILL STATISTICS DATA

The ICC has conducted a continuing one-percent sample of waybills since 1946. In 1970, the sample became part of the Department of Transportation Comprehensive Freight Flow Data Program. The statistics obtained from this sample provide traffic flow data between any two points by commodity type. Items in the waybill include number of cars; car initial, number, type, and weight; revenue; STCC commodity type; and origin and destination. Material from the 1930s and early 1940s to 1966 is available from the ICC library (in photocopy). Data for 1969 and 1972 to the present may be obtained from the Federal Railroad Administration of the Department of Transportation. To obtain data from either source, a one-page request must be filed with the Director, Bureau of Economics, ICC, that details the specific data wanted and for what purpose they are to be used. The request will be reviewed by the ICC, and, if approved, forwarded to the FRA for release. There are restrictions on data disclosure that protect the identity of shippers, carriers, and other providers of information.

Currently, waybill statistics are being integrated into the U.S. Army Corps of Engineers Waterborne Commerce Statistics Center data system to enable the tracing of commodity flows to and from waterways.

Interstate Commerce Commission Bureau of Economics 12th Street and Constitution Avenue, NW Washington, D.C. 20423. 40-021 U.S. FOREIGN AGRICULTURAL TRADE STATISTICAL REPORT

Published semi-annually, the report provides selective data on the quantity and value of detailed agricultural commodities and commodity groups imports and exports by country and world area of origin or destination; and the quantity and value of transshipments of U.S. agricultural products through other countries.

Economic Research Service Department of Agriculture 500 12th Street, SW Washington, D.C. 20250

Order from: GPO Item 42-E

40-022 ONGOING SURVEY OF GRAIN FLOWS, 1977

The Survey for 1977 will develop data on shipments of grain to and from grain elevators in the U.S. Interviews are being conducted under the auspices of forty-two states' land grant universities to obtain information regarding the origin and destination of shipments, the mode of transportation by which the grains are shipped, and other factors of grain trade, such as handling, storage, drying, and processing. The study information will be coordinated by the Department of Agriculture. Sponsors of the grain flow data processing are the Corps of Engineers Institute for Water Resources, the Federal Railroads Administration, the Saint Lawrence Seaway Development Corporation, and the Maritime Administration. The data will be organized by geographical areas. A report, statistical appendices, and data tapes are to be generated from the study and should be available in the summer of 1975. Whether or not the report will be updated depends on the funding and inclination of the state universities to continue their participation.

For information, call (202) 325-0477.

U.S. Army Corps of Engineers Institute for Water Resources Kingman Building Fort Belvoir, Virginia 22060 40-024
FOREIGN TRADE STATISTICS BULLETINS: SERIES A, B, AND C (ANALYSIS)

Series A reports are quarterly analyses of the global trade of  $\overline{\text{OECD}}$  countries, organized by countries and areas of trade origin and destination. They are updated by a monthly supplement which shows the latest trade data.

Series B bulletins are designed for general analysis of the trade of OECD countries by main commodity categories and partner countries and areas. For each individual country and for major groups of OECD countries, the commodity and geographical breakdowns are selected from standard nomenclatures in light of the trading pattern involved.

Series C semi-annual bulletins are based on import and export data provided by member countries. They provide detailed information on the trade of OECD countries by commodity and partner country or area. The tables show totals for regional groupings as well as data for all individual countries. Commodities are defined and classified in accordance with the SITC revised. Each issue consists of 3 volumes: 1) General—covering imports and exports by SITC section and divisions by value; 2) Imports—covering trade in a selection of SITC groups and subgroups and items in both quantity and value; and 3) Exports—covering the same information as 2) for exports.

For information, call (202) 724-1857.

Organization for Economic Cooperation and Development 2 rue Andre-Pascal 75775 Paris CEDEX 16 France

Order from:
OECD Publications and Information Center
1750 Pennsylvania Avenue, NW
Suite 1207
Washington, D.C. 20006

40-025 EXPORTER'S DIRECTORY/U.S. BUYING GUIDE

Published annually, the Directory contains a list of more than 40,000 exporters in the U.S. and Puerto Rico broken down by SITC product index, directory section and brand name index. Included are an alphabetical listing of companies, an alphabetical state index, lists of associations and banks involved in exporting, a brand name list and name of the producer, a list of consulates, and the SITC product index.

Journal of Commerce and Commercial 110 Wall Street New York, New York 10005

Order from: Journal of Commerce Business Guides 110 Wall Street New York, New York 10005

40-026
SHIPPING STATISTICS AND ECONOMICS (ANALYSIS)

This monthly publication contains the following data: tanker chartering activity during the month prior to publication; monthly comparisons of charterers' activity; period tanker business (time charters, consecutives, and contract); tanker age by DWT analysis; tanker age by draft analysis; monthly world scale rates for single voyage tanker fixtures; an analysis by size of ownership of the tanker fleet, showing independent tonnage known to be committed to period business and market ships; tanker and combination tonnage chartered for period employment by charterer; dry cargo statistics; tanker statistics; tables of total grain trading tankers; total tonnage laid up, tankers and dry cargo; scrap prices; new orders; new deliveries; and tonnage sold for further trading.

H.F. Drewry Shipping Consultants Limited 34 Brook Street, Mayfair London WlY 2LL England

Crder from: H.P. Drewry Shipping Consultants Limited 34 Brook Street, Mayfair London WlY 2LL England 40-027
EXPANSION OF THE SOVIET MERCHANT MARINE INTO THE U.S. MARITIME TRADES (ANALYSIS, FORECAST)

The report analyzes the growth of the Soviet merchant marine since 1965 and forecasts its growth through 1985. It cites the trend to intermodalism in the U.S.S.R. fleet and projects the expected number of new deliveries for the next 10 years. Specific data presented include: number of ships and total tonnage of the world merchant fleet, 1965 and 1975; U.S., U.S.S.R., and total world fleet by vessel size as of January 1, 1976; Soviet fleet size and composition projected to 1985; U.S./U.S.S.R. bilateral and total U.S. oceangoing foreign trade by U.S. or Soviet carrier with projections for 1980 and 1985; Soviet vessel visits to U.S. ports by coast and the Great Lakes; total Soviet foreign trade by tanker and dry cargo ships; total Soviet fleet capacity, ton-miles traveled, and foreign and domestic tonnage carried for 5-year intervals, 1960-1975; ranking by tonnage and dollar value of total U.S. trade carried on Soviet ships; a U.S.-flag fleet forecast; and a listing of Soviet shipping companies, services, routes, and vessels.

Maritime Administration 14th and E Streets, NW Washington, D.C. 20230 August 1977

Order from: GPO

40-028 TRENDS IN U.S. FOREIGN TRADE

The monthly reports are issued approximately five weeks after the end of the month of coverage. Cumulative quarterly reports appear in March, June, September, and December. The tables present data on the value of U.S. imports and exports, including all oceanborne trade, and the merchandise balance for the month of coverage, year to date, and the previous calendar year. The cumulative reports contain four or five additional tables with statistics on principal commodities and major trading nations.

U.S. Department of Commerce Domestic and International Business Administration 14th and E Streets, NW Washington, D.C. 20230

Order from: GPO

40-029 SHIP DATA BANK SYSTEM

The Panama Canal Company data system is a library of statistical data on ships that have transited the Canal or called at Canal ports. Daily reports are provided to pilots and other operating personnel for use in transit and port operation, and summary reports are made to management on tolls, revenue, time in Canal Zone waters, and other measures of Canal operating performance. In addition, data on types and quantities of cargo transited, trade routes, ship types, etc., are accumulated and reported for statistical analysis. The primary sources of system input are internal and consist of documents prepared for each ship's arrival at the Panama Canal. The input consists of ship attributes and transit data and includes general information, identification, size, dimensions, tonnage capacities, operating characteristics, transit requirements, and port captains and marine traffic control remarks. There are 145 items of data on each ship's attributes and 95 items on each transit. The data are utilized to prepare reports for operational and financial review, economic analysis, financial forecasting, and long-range planning. The data are also available for use in preparing reports to do research for Canal capacity, tolls, and other special studies. The principal reports produced are Information Report for Daily Operations; Tolls Revenue Report; Information Report for Current and Future Planning; and Analysis and Performance Report.

The Washington office is located at 425 13th Street, NW, Washington, D.C. 20004. For information, call (202) 724-0104.

Panama Canal Company Balboa Heights Canal Zone

40-030 MONTHLY PETROLEUM STATISTICS REPORT

Statistics provided in this monthly publication include figures for production, imports, and stocks of crude, liquid natural gas, and major petroleum products with breakdowns by district and import source.

Department of Energy, Energy Information Administration 1000 Independence Avenue, SW Washington, D.C. 20003

Order from: NTIS

40-031 A SHORT-TERM FORECAST OF U.S. OCEANBORNE EXPORTS FOR 1978-1979 (ANALYSIS, FORECAST)

This study is the third in a series prepared for the Maritime Administration. The previous two reports were compiled by Temple, Barker and Sloane, Incorporated, the latest completed in February 1976. Chapter I summarizes the principal findings of the study, which are detailed in the remaining chapters and the appendices. Chapter II is an analysis of historical trade data, with Appendix A providing the supporting exhibits from which the findings were drawn. Appendix B lists all the principal data sources for the historical data. The process and results of key commodity, country and trade route selection are presented in Chapter III. The results of the survey/ interview program are contained in Chapter IV, with Exhibit IV-1 providing a summary of shipper responses for the twelve commodity groups represented. Appendix C provides samples of the survey instruments. Chapter V details the total forecast results, providing projected export tonnages by selected commodity and country. The forecast methodology and historical data on commodities and countries are shown in Appendix D.

Simat, Helliesen and Eichner, Incorporated Transportation and Management Consultants 1019 19th Street, NW Washington, D.C. 20036

Order from: NTIS PB 284 654

40-032 CRUDE PETROLLUM, PETROLEUM PRODUCTS, AND NATURAL GAS LIQUIDS, PETROLEUM STATEMENT MONTHLY

The data in these monthly reports are derived from industry rets and published approximately four months after the month of Doverage. Annual summary tables appear throughout the year and are indexed in the December issue. The transportation and trade section gives data on interdistrict movements by tanker and barge of crude oil, natural gas liquids, and petroleum products from the Gulf of Mexico to the East Coast in a locational break-do

Department of Energy
Energy Information Administration
1000 Independence Avenue, SW
Washington, D.C. 20003
Order from:
GPO

40-033 CARGO PREFERENCE SYSTEM (CPS)

The data elements in this base include the Marad identification number, name of the vessel, its flag of registry, the date of loading, port of loading, port of discharge, a commodity description, the cargo weight in pounds, the total ocean freight revenue, the type of service operator and the program identification. It is updated as information becomes available.

For information, call (202) 377-4748.

Maritime Administration Office of Trade Studies and Statistics 14th and E Streets, NW Washington, D.C. 20230

40-034
DOMESTIC WATERBORNE TRADE OF THE U.S., 1972-1976

The data include intercity freight by mode, 1972-1976; U.S. domestic and foreign waterborne commerce, totals for 1972-76; U.S. domestic waterborne commerce by trade segment and vessel type, 1972-76; number of vessels and cargo carrying capacity of the U.S. domestic fleet, 1972-76; principal commodities carried in U.S. domestic waterborne commerce, 1972-76; U.S. domestic, intercoastal, and noncontiguous waterborne commerce by area and type of vessel, 1972-76; domestic oceanborne commerce of the U.S. by geographical areas and type of vessel, 1972-76; principal commodities carried in domestic ocean waterborne commerce by vessel type, 1972-76; tonnage received by domestic ocean ports by type of vessel and tonnage shipped by type of vessel, 1976; profile of domestic ocean trade districts; Great Lakes trade (domestic and foreign waterborne commerce by type of vessel, 1972-76, principal commodities carried in the U.S. Great Lakes domestic waterborne commerce by vessel type, and tonnage received by and shipped from Great Lakes ports by vessel type, 1976); and inland waterways trade (U.S. inland waterways commerce by area and type of vessel for 1972-76, and commerce between areas in dry vessels and tank vessels for 1972-76 by area, commodity, and type of vessel).

Maritime Administration Office of Domestic Shipping 14th and E Streets, NW Washington, D.C. 20230 152 pp. 1978

Order from: GPO 003-007-00084

40-035 CONTAINERISATION INTERNATIONAL YEARBOOK WORLD MAP OF CONTAINER ROUTES, SERVICES, AND OPERATORS

Available separately from the Yearbook, the map shows ports according to TEU traffic throughput, ocean and rail routes, operators engaged on each service, and container ship capacity controlled by each shipping line.

See also Containerisation International Yearbook.

Containerisation International Yearbook Chestergate House, Vauxhall Bridge Road London SWIV 1HF, England

Order from: National Magazine Company, Limited Chestergate House, Vauxhall Bridge Road London SWIV 1HF, England

40-036
DOMESTIC TRADE SYSTEM

This system is a comprehensive data base from which information can be extracted to support market development in the 3 domestic trade areas: domestic oceans, Great Lakes, and inland waterways. Data can be used to assist the maritime industry in assessing its share of total commodities being moved, establishing its responsibilities in providing transportation services, and capitalizing more fully on market opportunities. Input data are provided on magnetic tapes by the Department of the Army, Lower Mississippi Valley Division, Corps of Engineers, and the Waterborne Commerce Statistics Center. The principal subject matter covered is commodity movements in the U.S. domestic waterborne trade. Data include vessel type, traffic type, service type, NRT, vessel operator, vessel ID, shipping and receiving dates, COE shipping and receiving channel, commodity code and name, shipping and receiving coastal districts, and shipping and receiving ports.

For information, call (202) 377-5157.

Maritime Administration, Office of Domestic Shipping 14th and E Streets, NW Washington, D.C. 20320 40-037
INLAND WATERBORNE COMMERCE STATISTICS

This annual report includes a list of commercially navigable waterways of the U.S. by lengths and depths; the number of towing vessels and barges of the U.S. operated for the transportation of freight as of January 1; the number of towing vessels and barges operated for the transportation of freight for previous years of the decade; the traffic transported on inland waterways of the U.S., exclusive of the Great Lakes, for the 20 previous calendar years; net tonnage and ton-miles of the year's coastal and coastwise traffic; total tons moved on inland waterways, exclusive of the Great Lakes; total ton-miles on inland waterways, exclusive of the Great Lakes; principal commodities transported on the inland waterways of the U.S., exclusive of the Great Lakes, in net tons of 2,000 pounds for the relevant and previous years; net tonnage and ton-miles for the total annual traffic, both on inland waterways and oceangoing; and the principal commodities carried during the calendar year, both oceangoing and inland water-ways, for all river systems and inland waterways in the U.S.

For information, call (703) 841-9300.

American Waterways Operators, Incorporated 1600 Wilson Boulevard, Suite 1101 Arlington, Virginia

Order from: American Waterways Operators, Incorporated 1600 Wilson Boulevard, Suite 1101 Arlington, Virginia 22209

40-038
WESTINFORM SHIPPING REPORT (FORECAST)

The Report provides an interpretation of all available official and commercial sources to forecast seaborne trade of the following commodities or allied groups of commodities: grain; coal; timber; chemicals; fertilizers; iron ore; bauxite and alumina; oil; and liquid nitrogen gas (LNG).

The Westinform Service 9 Cork Street London WlX 1PD, England

Order from: The Westinform Service 9 Cork Street London WIX 1PD, England 40-039 CARGO/OPERATOR SHIPPING INFORMATION SYSTEM (COSIS)

COSIS is a data base maintained by MarAd and updated on a monthly basis. Data elements include the date entered or cleared the U.S. port; the MarAd import/export code; vessel name; U.S. coastal district; manifest number; commodity code; U.S. port entered or cleared; foreign port; country of origin or ultimate destination; exports intransit code; net registered tonnage; type of service; type of cargo; rig; draft; number of passengers; dollar value of cargo; cargo weight; flag of registry; vessel operator code; flag operator code; trade route; type of vessel; commodity name; and the MarAd vessel number.

For information, call (202) 377-5748.

Maritime Administration, Office of Trale Studies and Statistics 14th and E Streets, NW Washington, D.C. 20230

40-040
MARITIME TRANSPORT (ANALYSIS, FORECAST)

This OECD annual report contains a summary of developments during the year in freight markets, the transport of major commodities, and the world commercial fleet. The following data are included: world shipping trends; containerization statistics; freight market information (general, dry cargo, tankers, and liners); demand for shipping services; supply of shipping services (world merchant fleet by types and flags, tonnage laid up, tonnage lost and broken up, and new construction); canals traffic; size and age distribution of the world fleet; age and size distribution of the world tanker fleet; age and size distribution of the world dry cargo fleet; new-buildings on order; and a propulsion analysis of the world fleet.

For information, call (202) 724-1857, Telex 440245.

Organization for Economic Cooperation and Development 2 rue Andre-Pascal 75775 Paris CEDEX 16, France

Order from:
OECD Publications and Information Center
1750 Pennsylvania Avenue, NW - Suite 7
Washington, D.C. 20006

40-041 FOREIGN TRADE SYSTEM (ANALYSIS)

This data base provides information on vessels (both foreign and U.S.) entering or leaving a U.S. port; U.S. and foreign competition which involves the determination of long tons of cargo carried between U.S. and specified foreign ports for the purpose of calculating operating differential subsidies; and trade route analysis for comparing the effectiveness of U.S. carriers versus foreign carriers on various trade routes. Data are derived from monthly files of Census-created reels of magnetic tape on commodity movements and vessel movements, ship characteristics entered in the MarAd Ship Data System, and vessel utilization and performance reports submitted by all operators providing cargo information pertaining to each vessel entrance or clearance into or out of the U.S. Annual reports produced from this system are: Foreign Trade Liner Cargo Service -- Vessel Cargo Tonnage and Sailings by Trade Route, Flag, Operator and Vessel; Cargo Tonnage and Total Sailings by Trade Route, Flag, Subsidized/Non-Subsidized; Cargo Tonnage and Total Sailings by Flag, Subsidized/Non-Subsidized; Trade Route Analysis; and Foreign Trade Competition.

For information, call (202) 377-4758.

Maritime Administration Office of Trade Studies and Statistics 14th and E Streets, NW Washington, D.C. 20230

40-042 STATISTICAL ABSTRACT OF THE U.S.

Relevant sections are: Transportation—Air and Water (international transportation, waterborne trade, employment in shipping, merchant marine, merchant vessels); Distribution and Services; Foreign Commerce and Aid (exports by areas, trade by country, export and import summaries); and Comparative International Statistics.

Bureau of the Census Suitland, Maryland

Order from: GPO (Year) 0-202-200 40-043 A LONG-TERM FORECAST OF U.S. WATERBORNE FOREIGN TRADE, 1976-2000 (ANALYSIS, FORECAST)

The forecasts in this three volume report extend from 1976 to the year 2000 in five year intervals. The first volume is a summary which includes a full description of forecasting models and procedures as well as highlights of forecasts for major import and export commodity groups. Volume Two consists of computer print-outs of forecasts of 3-digit Census Schedule A and B commodities by nineteen world trading regions, and the third volume contains similar material classified by sixtyfive major trade routes. The forecast is based on U.S. Bureau of the Census annual tapes which store 354 time series, covering the period of 1967-1975, on a 3-digit commodity level. Since many trade volumes at the 3-digit level are of minor quantity, they are grouped into eighty-two aggregated time series consisting of forty-one imports and forty-one exports. These constitute the dependent variables for the micro models. The independent variables were derived from Data Resources Incorporated time series of a wide variety of economic variables for both the U.S. and foreign countries. The reliability of the forecasts diminishes as more detailed forecasts are made relative to the aggregated forecasts. Thus, the 354 commodity level forecasts are less reliable, as are the regional and trade route forecasts. The forecasts are subject to periodic revisions and occasional updates as needs arise.

For further information, call the Office of Policy and Plans at (202) 377-2258.

Maritime Administration
Office of Policy and Plans, Division of Economic and Operational Analyses
14th and E Streets, NW
Washington, D.C. 20230
November 1977

Order from:
NTIS Set--PB 274 600/AS; Vol. I--PB 274 601/AS; Vol. II-PB 274 602/AS; Vol. III--PB 274 603/AS

40-044
ARAB SHIPPING 1978: A SEATRADE GUIDE (ANALYSIS, FORECAST)

The Guide is published exclusively for Seatrade subscribers. It is hoped to make this an annual publication and to expand the format, publishing shipping guides for various regions of the world. Included are an Arab world map; the Arab maritime scene (statistics on Arab involvement in oil and gas trading, shipbuilding and repair facilities in the Middle East, liner shipping and the extent of Arab involvement, port developments in the Arab world, and Arab maritime training facilities and future manpower requirements); facts and figures (growth of Arab fleets, dry cargo development, tanker development, vessels completed for Arab registration in 1977, Arab order book, shipping lines serving the Middle East, and a listing of Middle Eastern freight conferences); country-by-country analyses of trade and maritime development; and company and port indices.

For information, call (212) 422-6470.

M.J. Wood, Editor Seatrade Publications Limited Whitehall Building 17 Battery Place New York, New York 10004 324 pp. 1978

Order from: Seatrade Publications Limited Whitehall Building 17 Battery Place New York, New York 10004 40-045 COMMODITY MOVEMENT--MONTH (CMM)

The CMM data base is maintained by MarAd and updated on a month-ly basis. The data elements include inbound/outbound code, type of service, U.S. customs district, U.S. port, foreign port, commodity code by Census Schedule A or B, country of ultimate destination for exports in transit, country from which the commodity was last shipped, flag of vessel, COE channel, U.S. coastal district, year, month, manifest number, dollar value of the commodity, and weight of cargo in pounds. There is also a CM--ANNUAL system that produces a number of yearly reports on commodity shipments and tonnage by type service, port, trade route, foreign port, coastal district, and direction.

For information, call (202) 377-4758.

Maritime Administration Office of Trade Studies and Statistics 14th and E Streets, NW Washington, D.C. 20230

40-046

U.S. EXPORTS TRANSSHIPPED VIA CANADIAN PORTS

Included are statistics on the tonnage and value of goods exported from the U.S. via Canadian ports in 1976. The data tables for shipments via 13 U.S. ports contain the name of the U.S. customs district, the country of ultimate destination, the commodity code and description, the estimated tonnage of the shipment and its dollar value. There are also tables comparing the weight and value of Canadian diversion cargo for 1974, 1975, and 1976; a ranking by dollar value of the top 10 countries importing via Canada, including the percentage of total dollar value, the number of long tons, and the percentage of total long tons; and U.S. exports via Canada by customs district of exit, giving dollar value, percentage of total dollar value, number of long tons, and percentage of total long tons.

For information, contact the Office of Maritime Technology Market Analysis Program at (202) 377-3970.

M. B. Tenser, R. G. Christensen, Authors Maritime Administration, Office of Maritime Technology 14th and E Streets, NW Washington, D.C. 20230 84 pp. January 1978

Order from: 9FO, 1976-261-238/39.

40-049 LNG 1974-1990: MARINE OPERATIONS AND MARKET PROSPECTS FOR LIQUEFIED NATURAL GAS (ANALYSIS, FORECAST)

This special report concerns growth in the world trade in liquefied natural gas. It contains data on requirements for carriers, the cost of carrier operations, and the financing of LNG projects. There is an analysis of problems, particularly in financing, pertaining to LNG projects.

E. Faridany, Author
The Economist Intelligence Unit Limited
Spencer House, 27 St. James's Place
London SWIA 1NT
England
83 pp. 1975

Order from: The Economist Intelligence Unit Limited Spencer House, 27 St. James's Place London SWIA 1NT, England QER Special Report 17

40-050 WATERBORNE COMMERCE OF THE U.S. (ANALYSIS)

This annual 5-part report contains comparative statements of foreign and domestic commerce for the preceding year and the year of publication, and a detailed breakdown of commerce by commodity for the relevant year for waterways and harbours of the Atlantic Coast, Gulf Coast, Mississippi River System, Great Lakes, and Pacific Coast and Hawaii. There is also a national summary of commerce for the year arranged by Corps Districts. Data include the number of trips and the draft of vessels by type of ship, and commodity and passenger summaries for inland waterways, domestic coastwise shipping, and foreign import and export trade.

U.S. Army Engineer Division, Lower Mississippi Valley Vicksburg, Mississippi

Order from:
District Engineer
U.S. Army Engineer District, New Orleans
F.O. Box 60267
New Orleans, Louisians 70160

40-051 CONTAINER UTILIZATION (CON)

The elements in the Con data base are derived from the MarAd Supplemental Unitized Cargo Container Report MA-578A. It is updated on a quarterly basis. Data elements include inbound/outbound code, vessel number, date that data were obtained, trade route, vessel flag of registry, operator number/vessel, type of shipment, vessel name, coastal district, U.S. port, foreign port, number of containers, cubic feet, tons, and quarter that the information is processed. Quarterly and annual reports are produced from the system on containerized cargo movement by coastal district, U.S. port, foreign port, flag, trade route, and direction.

For information, call (202) 377-4758.

Maritime Administration Office of Trade Studies and Statistics 14th and E Streets, NW Washington, D.C. 20230

40-052 GUIDE TO FOREIGN TRADE STATISTICS, 1975

The guide is designed as a reference to all data, published and unpublished, that is compiled by the Bureau of the Census Foreign Trade Statistics Program. The statistics generally relate to U.S. imports and exports and to vessel movements to and from the U.S. The publication lists the names and numbers of the reports and provides examples of their formats and the information contained in them. It also gives information on subscription prices and how to obtain the published reports and unpublished data that is currently on magnetic tape. Published Foreign Trade Reports include: FT810, Funker Fuels; F1900, Export and Import Merchanilse; FT975, Versel Entrances and Clearances; FT985, Waterborne Exports and General Imports; FT130, General Imports of Cotton Manufagures; FT135, General Imports; FT410, Exports: FT600, Fuerto Rico and U.S. Possessions; PT150, General Imports; FT155, General Imports; FT210, Imports for Consumption and General Imports; FT450 and FT455. Exports; and FT610. Exports of Domestic Merchandise. Foreign Trade Reference Material includes 20 monthly import tabulations, 17 annual import tabulations, 17 monthly export tabulations, and 1/ annual export tabulations.

U.S. Bureau of the Census Foreign Trade Division Suitland, Maryland 208 pp. July 1975

Order from: GFO, 003-02%-01082-8 40-053
TRANSCEANIC CARGO STUDY, VOLUME II (FORECAST)

The three volumes comprise a study of transceanic cargo movements by air, water, and combination modes for the period 1970 to 1980. Volume II presents the results of the study. Included are projections for the costs and productivities of the transceanic transport technologies for the years 1970-1980. Jumbo-type aircraft, bulkers, tankers, container ships, breakbulk ships, and barge carriers are covered. There is also some information on domestic and foreign inland modes and on peripheral costs such as documentation, inventory, pickup and delivery, and insurance.

Volume I (PB-201-040) contains a presentation of study methodologies. Volume III (PB-201-042) documents the computer programs of the demand forecasting models and cost model used in the study.

Planning Research Corporation Los Angeles, California Vol. 2 1971

Order from: NTIS, PB-201-041

40-054
TRAFFIC REPORT OF THE ST. LAWRENCE SEAWAY (ANALYSIS)

Figures for the year of the report and the previous year are provided in this annual publication to allow comparison and analysis. Data provided cover the number of ships and cargo and passenger volumes transiting the Seaway during the year; gross and cargo tons carried; revenue dollars generated; type of transit; and cargo origin, destination, direction, nationality, commodity, and type. The data are organized according to whether the transit was urbound or downbound, and are presented for annual, monthly, and daily operations.

The Seeway, Transport Canada 202 Pitt Street Cornwall, Ontario K6J 327 Canada

Order from.
The Seaway, Transport Canada
202 Pitt Street
Correall, Ontario K6J 3P7
Canada

40-055 INTERFILE

This data bank contains general global trade information. can provide information such as names of manufacturers, importers and exporters; and data on commodities, market studies, government regulations, tariffs, trade, and production. Interfile is accessible by mail, phone, or personal visit. Abstracts are added to it by world trade centers in the U.S. and other There is a special order service through which one countries. can order the publications listed in the data bank. The data bases accessible to Interfile computer terminals are the New York Times Information Bank, the Marine Information System, the System Development Corporation, and the Lockheed Dialog Service. The cost varies on the data base used and the length of the search. The average cost is \$10.00 per inquiry, with charges for searches on outside data bases running higher. Frequent users may subscribe for a \$100.00 deposit.

World Trade Information Center International Business Information Services One World Trade Center New York, New York 10048

40-056 FINANCIAL AND STATISTICAL REPORT

This annual report contains a summary of dry cargo shipments and bulk petroleum shipments subject to P.L. 664 (50-50 LAW). Also included is information on cargo routes, commodities, carriers, and sponsors; data on petroleum routes, type of products, and sponsors and vessel owners; an inventory of MSC controlled and Nucleus and fleet support ships and tankers; and a summary of personnel data.

For information, call (202) 282-2919.

Department of the Navy Military Sealift Command Washington, D.C. 20390

Order from: COMSC (Commander, Military Sealift Command) Washington, D.C. 20390 40-058
ANNUAL REPORT OF THE LAKE CARRIERS' ASSOCIATION (ANALYSIS)

Statistical information includes total Great Lakes bulk tonnage for the year; recommended upbound and downbound drafts for the year; new U.S. and Canadian Great Lakes bulk carriers and tankers (name, company of build, hull number, overall length, beam, depth, engine, HP, speed, where built, year in commission); vessel name changes; U.S. and Canadian vessels in Great Lakes service; Lake bulk freight commerce by years, 1947-; iron ore, bituminous coal, petroleum products, and grain trade statistics; port shipments from individual Great Lakes ports by years, 1946-; grain shipments and receipts of U.S. Great Lakes ports; grain held in storage cargoes for the year; cargo records of selected vessels for the year; comparative statement of Lake commerce passing through the Canal at Sault Ste. Marie for the year and previous season; Detroit River, Seaway, and New York barge canal traffic statistics for the year; new and existing harer structures; and 9th USCG District activities for the year (SAR statistics, icebreaking activities, aids to navigation established, law enforcement, and environmental protection and merchant marine safety actions).

For information, call (216) 621-1107.

Lake Carriers' Association 1411 Rockefeller Building Cleveland, Ohio 44113

Order from: Lake Carriers' Association 1411 Rockefeller Building Cleveland, Ohio 44113 40-060 U.S. OCEANBORNE FOREIGN TRADE ROUTES (ANALYSIS)

This is the first edition of U.S. Oceanborne Foreign Trade Routes and is planned to be an annual publication designed to replace and expand upon the former Essential U.S. Foreign Trade Routes series. It presents detailed information on cargoes moving on U.S. foreign waterborne trade routes both in U.S.- Clay and foreign-flag vessels. Part I is a narrative analysis of transportation patterns, trends, and commodity flows. Fares II and III contain commodity flow information by type of service (liner, tanker, and non-liner) and trade route. For each trade route, a map showing geographical area of coverage is included along with commodity data by type of service for 1975-76. Part II shows essential trade routes and Part III remaining trade routes. No distinction is made for cargoes moved by landbridge or minibridge methods. Any cargo which originates in one country, is transchipped to another, and loaded on a vessel bound for the U.S. appears as moving from country where loaded to the U.S. The same holds true for exports from the U.S. The Bureau of the Census is the primary source for the data.

For information, call (202) 377-4758.

Maritime Administration, Office of Trade Studies and Statistics 14th and E Streets, NW Washington, D.C. 20230 360 pp. March 1978

Order from: GPO, 603-007-00085-5 40-061 BASIC PETROLEUM DATA BOOK

Designed to provide a continuing source of information, the data book is in looseleaf format to allow easy updating. The annual subscription price covers quarterly updates. New subscribers receive the data book in a 3-ring binder with updates mailed quarterly. Original subscribers receive updates only to replace material in their binders. The series includes domestic and world statistical background information beginning in most instances with 1947. Chapters in the book include energy, reserves, exploration and drilling, imports, exports, offshore, transportation, natural gas, and OPEC.

For information, call (202) 457-7160.

American Petroleum Institute 2101 L Street, NW Washington, D.C. 20006

Order from: American Petroleum Institute 2101 L Street, NW Washington, D.C. 20006

40-062
YEARBOOK OF INTERNATIONAL TRADE STATISTICS (ANALYSIS)

The latest issue provides basic information for national external trade performances in terms of overall trends in current value, as well as in volume and price for all member countries of the U.N. Volume 1 contains data for individual countries and basic summary tables showing national contributions to trade of the region or to world trade. Volume 2 analyzes imports and exports by commodity, based on the Standard International Trade Classification (SITC). Specifics of maritime trade are provided.

United Nations New York, New York

Order from: UNIPUB P. O. Box 433 Murray Hill Station New York, New York 10016 40-063
NATIONAL TRANSPORTATION TRENDS AND CHOICES (TO THE YEAR 2000)
(ANALYSIS, FORECAST)

Chapter 9 (Marine) and Chapter 15 (International Marine) are the relevant sections to be consulted. Chapter 9 contains the following data: waterborne commerce, 1964, 1969 1973-74; principal commodities in waterborne commerce, 1964 and 1974; Mississippi River system channel characteristics; characteristics of navigation locks on U.S. inland waterways as of April 1976: 1974 Mississippi River-Gulf Intracoastal Waterway fleet; projected Mississippi River-Gulf Intracoastal Waterway fleet, 1975, 1980, 1990; Mississippi River-Gulf Intracoastal Waterway towboat and barge projections, 1975, 1980, 1990; commerce on major waterways of the Mississippi River System. 1964 and 1974; commodity flow projections for U.S. internal waterways and major river systems, 1975, 1980, 1990; principal commercial elements, domestic fleet, 1975; 1975 dry bulk lake freighters and the dry bulk fleet by vessel length and age; estimated dry bulk floet requirements for 1975-80, 1980-90, 1975-90; estimated dry bulk fleet, 1990; dry bulk freighters on order, 1975; tonnage and percent change for inland waterways and the Great Lakes, 1963-73; projected flows of trade, 1975, 1980, 1990; percent of change in projected trade flows for 1975-80, 1980-90, 1975-90; manned offshore oil terminals in the Gulf; U.S. intermodal equipment survey; tankers to be operated in TAPS transportation; comparison of foreign trade with domestic trade through coastal ports, domestic ocean trade, 1974; projected domestic ocean and miscellaneous waterways trade, 1975, 1980, 1990; passenger miles by water, 1975, 1980, 1990; COE civil works and navigation expenditures; planned expansions to the inland waterway system through 1990; USCG vessel traffic surveys; commercial maritime casualty statistics, 1964, 1969, 1974-75; U.S. waterborne commerce of hazardous materials; reported incidents of oil pollution; U.S. port development expenditures; summary of projected waterborne commerce, 1975-90; and a summary of projected domestic waterborne commerce, 1975 and 1990. Chapter 15 contains tables of the following statistics: principal commodities in foreign waterborne commerce, 1964 and 1974; U.S.-flag oceangoing fleet; size and speed of U.S. vessels; projections of U.S. oceangoing fleet, 1975, 1980, 1990; comparison of foreign trade through coastal ports and domestic coastal trade for selected years; projected U.S. waterborne foreign trade, 1975, 1980, 1990; U.S. waterborne foreign trade imports and exports, 1975 and 1990; and U.S. waterborne foreign trade by service type for 19 principal regions. There is also a map section included with a map of major waterway systems of the U.S. existing in 1975 and projected to 1990.

Department of Transportation Office of the Secretary 400 7th Street, SW Washington, DC 20590

(cont'd)

40-063
NATIONAL TRANSPORTATION TRENDS AND CHOICES (TO THE YEAR 2000)
(ANALYSIS FORECAST) (cont'd)

412 pp. January 1977

Order from: GPO, 050-000-00124-5

40-064 WORLD FREIGHTS (ANALYSIS)

This publication is a review of the relevant year global shipping and an interpretation of statistical tables. also contains a chronological review of tramp markets on a month-by-month basis. Information presented includes: a statistical analysis of the year's tramp charterings by tonnage class, by commodity, and by user; annual growth rates for individual cargo sizes since the early 1960s; monthly freight variation in the key trades; a time-charter monthly index with equivalents from 1965 to the present; annual laid-up shipping returns; grain chartering by shipment zones; fertilizer charterings; movement patterns and freight rates for each class of plant foods and fertilizer raw materials; comparative rates for selected years; bulk trades data; analyses of movements and average ship tonnages for all routes and in respect to all bulk cargoes carried by tramp ships; zonal import and export analyses; average freight rates for the year; a listing of the largest vessels fixed on the principal sea routes; world seaborne trade statistics, 1960 to the present; growth rates in ship sizes and variations in the world fleet composition by flag and vessel type; ship propulsion analyses; world order books for new tonnage; current shipbuilding prices; and secondhand ship and scrap metal values.

The British Sulphur Corporation Limited 23 Upper Brook Street London WlY 2BB England

Order from: The British Sulphur Corporation Limited 23 Upper Brook Street London WIY 2BB England 40-065
TRADE INFORMATION SERVICE: IMPORT AND EXPORT (ISIS and EXIT)
CARGO TABULATIONS

GENERAL: The data available from the Trade Information Service is obtained from transcribed ships' manifests and is available in three different formats described below. To receive regular reports, the minimum subscription period is 3 months. There is an initial programming charge, and if there is a significant change made in the program during the subscription period, additional charges may be levied. For reports provided on computer tape, there is a per-reel-of-tape-consumed charge; for microfiche, reports are available at the cost of processing the film. Reports are delivered in the U.S. by United Parcel or first class mail; other destinations are sent by airmail or air freight and billed at cost.

TYPE A REPORT: BY COMMODITY: These reports are primarily for those interested in watching a specific product or group of products within a certain category. Any number of products falling within each of the general commodity categories can be included for the basic monthly charge. The categories are foodstuffs; forest products; textiles, yarn, apparrels, etc.; chemicals and plastics; nonmetallic minerals, ceramics, glass, etc.; ores and metals; manufactured metal products and mechanical machinery; electronics and instruments; furnishings, personal and household; miscellaneous and all other. For an additional charge, Type A report subscribers can get the Census Bureau's IM-145 report showing total entries and total values of products of interest at individual U.S. ports from each foreign country.

TYPE B REPORT: BY TRADE ROUTE (ALL COMMODITIES): Type B reports are for those interested in imports originating at or exports destined for specific ports, countries, or regions. Rates vary for different trade routes. Results can be tabulated in any sequence and cover whatever time span is specified.

TYPE C REPORTS: BY SHIPPER OR CONSIGNEE LOCATION (ALL COMMODITIES): Those interested in importers or exporters within a specific region will find Type C reports of value. Rates vary according to region. Reports include all commodities and all ports to/from all consignees/shippers in New England, Middle Atlantic except New York, Southeast, Midwest, Pacific, or New York.

For information, call (212) 425-1616. Telex: 233241.

Journal of Commerce and Commercial 110 Wall Street New York, New York 10005 40-066
DOMESTIC WATERBORNE SHIPPING MARKET ANALYSIS: EXECUTIVE SUMMARY (ANALYSIS, FORECAST)

The executive summary presents a report of the entire study assessing the present and future markets for domestic marine transportation. Eleven reports are available as part of the analysis, including the Summary, reports on the three trade areas studied (inland waterways, domestic ocean, and the Great Lakes), two financial analyses, and five appendices. The report was prepared by A. T. Kearney in cooperation with Arthur D. Little, Inc., G.R.C. Data Corp., and the J. J. Henry Co. for the Maritime Administration. Data presented include statistics on the total domestic freight transportation market and modal shares; line-haul characteristics of domestic modes and the competitive advantage of each; the domestic marine market by commodity and tonnage for 1969 and 2000; the domestic marine market by trade area and tonnage for 1969 and 2000; inland waterways marine market share for 1969 by commodity with projected growth of total tonnage and marine tonnage for 2000; fleet requirements for 2000; investment in the inland waterways fleet for 1972 and 2000; domestic ocean marine market share for 1969 and 2000; revenues generated in the domestic ocean trade area in 1970 with a projection for 2000; Great Lakes marine market share for 1969 and 2000; Great Lakes projected growth of total tonnage and marine tonnage for 2000. The report includes extensive data analyses and recommendations for future actions.

Related reports include: Inland Waterways Trade Area, COM-74-10412/6; Domestic Ocean Trade Area, COM-74-10413/4; Great Lakes Trade Area Report, COM-74-10412/4; Financial Analysis of Inland Waterways Carriers, COM-74-10415/9; Development of the Forecasting Data Base, COM-74-10417/5; Forecasting Methodology, COM-74-10418/3; Modal Share Estimates COM-74-10419/1; The Data Base for Marine Marketing, COM-74-10420/9; Financial Data--Inland Waterways and Domestic Ocean Carriers, COM-74-10421; and Financial Analysis of Domestic Ocean Carriers, COM-74-10416/7.

A. T. Kearney and Company Incorporated 100 South Wacker Drive Chicago, Illinois 60606 February 1974

Order from: NTIS (COM-74-10411/8) 40-067
DATA RESOURCES INCORPORATED

DRI provides to its clients a fully integrated information and analysis system. Access is available at any time over tollfree communications from anywhere in the U.S. and from points in Alaska, Hawaii, Canada, and Europe. Software tools offered are modeling, forecasting and simulation, estimating, report writing end graphics. The information resources are as follows: Economic data bases (including numerous component data systems that can provide time series statistics in such areas as national income and product accounts, census and annual surveys of manufactures, demographics, consumer and industry sector price indices, and measures of agricultural productivity), Financial databases (including Bank of Amrica money and credit statistics, insurance industry data, balance sheet and income statement figures for over 3,600 industries and utilities, fund flows, Standard and Poor's industrial financial data, weekly banking statistics, and daily commodities exhange information), Energy and Weather databases (covering major sources and uses of energy in the U.S., fossil fuel supplies and demands, transportation of energy sources by mode of transport, inputs and outputs of the utility industries, oil and gas reserves, well completions, world crude oil exports, domestic and foreign oil prices, OECD figures on energy production, trade, and comsumption, and hourly weather information from more than 500 U.S. weather stations, including the status of navigable rivers and other waterways), and International databases (including worldwide economic indicators, OECD national account figures, OECD Trade Series A and C reports, and the balance of payments for 114 countries).

For information, call Lexington, Massachusetts (617) 861-0165; Chicago (312) 440-2400; Houston (713) 658-9261; New York (212) 840-2882; Pittsburgh (412) 298-0573; San Francisco (415) 956-4050; Toronto 87-861-9323; or Washington, D.C. (202) 862-3700.

Data Resources Incorporated 29 Hartwell Avenue Lexington, Massachusetts 02173

Washington Headquarters (for governmental agency information): 1750 K Street, NW Washington, D.C. 20006

40-068
STANDARDIZED COMMODITY TRANSPORTATION SURVEY DATA BASE

This system is a computer-based standardized commodity transportation data file that has been established for governmental and general public use. Its scope is presently restricted to primary non-local shipments of manufactured goods from producing plants by all major surface and air modes, including elements such as the Standard Commodity Classification Code, shipment weight, distance shipped, and origin and destination of the shipment. The sample is based on the public use files and other special computer tapes published by the Bureau of the Census from its Commodity Transportation Surveys of 1963, 1967, and 1972. The data have been adjusted for differences in units of reporting, changes in commodity classification, and errors in totals reported by the Census Bureau after publication of the public use files. The data are stored in a computerized data management system. A user manual describing the development, content, and application of the system is available at no charge.

A related Commodity Attribute File is also accessible through this base. Its data elements include a 5-digit STCC Code, commodity density (pounds per cubic foot), value, special nandling characteristics, and shelf life for perishable goods for approximately 1200 commodities.

For information, call ADP Network Services at (202) 872-0580.

U.S. Department of Transportation Transportation Systems Center Iransportation Information Division Kendall Square, Code DTS-231 Cambridge, Massachusetts 02142

Order from:
ADP Network Services
Federal Systems Division
2011 Eye Street, NW
Washington, D.C. 20006

40-069 SEATRADE U.S. YEARBOOK 1979

This publication will be available to Seatrade subscribers upon publication. Subjects to be covered include: trades (U.S.-and non-U.S.-flag participation, Eastern bloc and outsider competition, company-by-company breakdown including fleet and trade rouse details); energy/chemicals (tanker market, U.S. oil imports and transshipment terminals, LNG and LPG transportation, chemical shipping, offshore oil and gas exploration in U.S. waters); dry bulk (extent of U.S. and non-U.S.-flag involvement in dry bulk shipping, companyby-company breakdown including fleet and trade route details); tugs and service craft (requirements for service and offshore supply craft, towage and salvage in U.S. waters, company-bycompany breakdown of operators and builders of service craft and offshore supply ships); ports and trade (port development and the move towards unitization, labor relations, a listing of U.S. ports and terminals giving information on facilities, traffic, commodities, and support services); shipbuilding/repairing (U.S. yards' construction costs and subsidies, technology and marine engineering developments, company-by-company breakdown of yards which build or repair oceangoing vesse a); intermodal transportation (trade on inland waterways, railroads and highways in relation to U.S. domestic and international trade, shippers, forwarders, and shipping agents); service industries (review of U.S. financial institutions and services available to domestic and foreign companies, tabular listing of maritime-related financings concluded during 1978 with details of the agent/underwriter, participants, and structure and purpose of the transaction, a detailed list of U.S. shipbrokers, company-by-company breakdown of marine insurance brokers and underwriters, and U.S. container leasing companies and their box fleets); and maritime institutions (profiles of government agencies, congressional bodies, professional associations, lobby groups, and trade unions involved in U.S. maritime industries). There will also be a general index of companies.

Seatrade Publications, Limited The Whitehall Building, 17 Battery Place New York, New York 10004 1979

Seatrade Publications, Limited The Whitehall Building, 17 Battery Place New York, New York 10004 40-070
ENERGY STATISTICS: A SUPPLEMENT TO THE SUMMARY OF NATIONAL TRANSFORTATION STATISTICS

Relevant data included in this annual supplement are U.S. tank ship fleet, world tank ship fleet, and world tank fleet by flag statistics; total crude petroleum and petroleum products transported in the U.S. by mode of transport; movement of petroleum in U.S. waterborne trade; a summary of foreign and domestic waterborne commerce by type of traffic and commodity; principal commodities carried by water in the U.S.; tidewater movements of crude oil and products from the Gulf and West Coasts to the East Coast and from the Gulf Coast to the West Coast; and energy consumption figures by transportation sector.

Department of Transportation 400 7th Street, SW Washington, D.C. 20590

Order from: GPO

40-071
REVIEW OF MARITIME TRANSPORT (ANALYSIS, FORECAST)

This annual publication is prepared by the Secretariat of the United Nations Conference on Trade and Development (UNCTAD) in accordance with Item V of the program of work of the Committee on Shipping of the Trade and Development Board. Its contents include statistics on the development of international seaborne trade, the development of the world merchant fleet (changes in the world fleet and distribution of the fleet), shipbuilding, world ship prices, freight markets (general developments, changes in freight rates, freight rate indices, and liner freight rates), port developments, and other developments (for example, joint ventures involving developing countries and Suez Canal developments).

United Nations Conference on Trade and Development (UNCTAD) Trade and Development Board Geneva, Switzerland

Order from: U.N. Publications Sales Office United Nations New York, New York 10017

## SEE ALSO:

ANNUAL REPORT OF THE SECRETARY OF TRANSPORTATION ON HAZARDOUS MATERIALS CONTROL (ANALYSIS) 23-012 CHEMICAL TANKERS: THE SHIPS AND THE MARKET (ANALYSIS, FORE-CAST) 21-001 COMMODITY TRADE AND PRICE TRENDS (1978 EDITION) 10-006 DIGEST OF PORT STATISTICS 01-011 ECONOMIC IMPACT OF THE U.S. PORT INDUSTRY: AN INPUT-OUTPUT ANALYSIS OF WATERBORNE TRANSPORTATION (ANALYSIS) EEC SHIPPING 1978: A GUIDE TO THE SEA TRANSPORT INDUSTRIES OF THE EUROPEAN ECONOMIC COMMUNITY (ANALYSIS, FORECAST) A FORECAST OF 1970-1985 WORLD SHIPPING (ANALYSIS, FORECAST) THE FUTURE OF ATLANTIC PORTS (ANALYSIS, FORECAST) INDIVIDUAL STATES' DEPARTMENTS OF TRANSPORTATION 60-010 MARAD (YEAR): ANNUAL REPORT OF THE MARITIME ADMINISTRATION FOR THE FISCAL YEAR (YEAR) (ANALYSIS) 20-010 MARITIME INDUSTRY INFORMATION SYSTEM (MARIS) 10-013 MERCHANT FLEET FORECAST OF VESSELS IN U.S.-FOREIGN TRADE (ANALYSIS, FORECAST) 21-022 MIDDLE EAST SHIPPING AND TRANSPORT 1978-1985 (ANALYSIS, FORE-CAST) 23-029 NATIONAL WATERWAYS STUDY (ANALYSIS, FORECAST) 60-006 OCEAN TRANSPORTATION (ANALYSIS, FORECAST) 21-018 OCEAN YEARBOOK 21-015 OCEANBORNE SHIPPING: DEMAND AND TECHNOLOGY FORECAST (ANALYSIS, FCRECAST) 21-003 OCEANLINER CARGO SERVICE, U.S. PORTS TO: EUROPE, AFRICA, MIDDLE FAST, FAR EAST, CARIBBEAN, SOUTH AMERICA 22-006 PANAMA CANAL COMPANY AND CANAL ZONE GOVERNMENT ANNUAL REPORT 22-002 PERFORMANCE MONITORING SYSTEM (PMS) 60-008 PORT FERFORMANCE INDEX (ANALYSIS) 21-014 PORTS OF THE WORLD, A GUIDE TO CARGO LOSS CONTROL (ANALYSIS) 01-008 REPORT ON RAIL AND MARINE INTERFACE (ANALYSIS) 01-019 RO/RO SHORE AND SHIP RAMP CHARACTERISTICS: AN ICHCA SURVEY 1978 (ANALYSIS) 21-035 STANDARDIZED STERN PROJECT: FINAL REPORT (ANALYSIS, FORE-CAST) 21-054 THE STATE OF CONTAINERIZATION 1979 (ANALYSIS) 21-073 SUMMARY OF NATIONAL TRANSPORTATION STATISTICS 10-007 TRANSPORT ECONOMICS 10-003 TRANSPORTATION AND WORLD TRADE (FORECAST) 22-008 TRANSPORTATION ENERGY CONSERVATION DATA BOOK: EDITION 2

(ANALYSIS, FORECAST) 10-012

SEE ALSO (CONT'D.)

TRANSPORTATION LINES ON THE GREAT LAKES SYSTEM 21-020 TRANSPORTATION SERIES FILE 21-063 U.S. CUSTOMS SERVICE: PROLOGUE (YEAR) 22-004 U.S. PORTS: FOREIGN TRADE JANUARY TO DECEMBER (YEAR) 01-010 VESSEL MOVEMENT SYSTEM (VMM) 22-003 WATER CARRIERS AND INLAND WATERWAYS IN AGRICULTURAL TRANS-FORTATION (ANALYSIS, FORECAST) 60-012 THE WESTINFORM REGISTER OF RO/RO VESSELS (ANALYSIS) 21-068 WESTINFORM WEEKLY MARKET SERVICES 10-011 WORLD BANK 10-001 WORLD CONTAINER-PORTS SURVEY (FORECAST) 01-022 WORLD LINER AND TRAMP FLEETS (ANALYSIS) 21-013 WORLD SHIPPING STATISTICS (ANALYSIS) 21-072 WORLD WIDE SHIPPING GUIDE 01-003

## 50 Labor and Management— General Employment

50-001 EMPLOYMENT AND EARNINGS

Data included in the monthly reports relevant to the maritime industries are statistics such as annual employment of production workers in shipbuilding and repairing; an analysis of racial characteristics of the shipbuilding work force; the average hourly earnings of production workers in the construction industries; separation and accession rates; the ratio of monthly employment to average annual employment in the construction industries; and the ratio of monthly turnover rates to annual average turnover rates in the construction industries.

Department of Labor Bureau of Labor Statistics 441 G Street, NW Washington, D.C. 20212

Order from: GPO, Item 768-B

50-002 INDUSTRY WAGE SURVEY: SHIPBUILDING AND REPAIRING

One of a series on individual industries, the report surveys shipbuilding and repair yards and provides the following data: 4 tables showing average earnings by occupation and region, and the distribution of workers by earnings and benefits in the different regions; and 18 tables that present the number of workers and average hourly earnings by occupation, the percentage distribution of workers by average hourly earnings, method of wage payment, scheduled weekly hours, shift differential provisions and practices, hazard pay provisions and practices, sea-trial pay provision, paid holidays and vacations, health insurance and retirement plans, and other selected benefits.

Department of Labor Bureau of Labor Statistics 441 G Street, NW Washington, D.C. 20212 September 1976

Order from: GPO, 029-001-02048-1

50-003 FOREIGN MANNING INFORMATION SYSTEM (FMI)

This data base is maintained by MarAd and updated on a daily basis. The data elements include the Competitive Voyage File (voyage vessel ID number, date of arrival in U.S. for voyage, name of U.S. port of arrival for voyage, last foreign country visited before entering U.S. port, and the number of ratings for voyage) and the Competitive Vessel Voyage Manning File (MarAd vessel ID number, date of arrival in U.S. port, manning rating code, nationality of crew holding above rating, support files abbreviated name of rating, rating code, full descriptive name of rating, owner operator code and name, and official MarAd flag code and country name).

For information, call (202) 377-4758.

Maritime Administration, Office of Trade Studies and Statistics 14th and E Streets, NW Washington, D.C. 20230

50.004 EQUAL EMPLOYMENT OFFORTUNITY SYSTEM (EEO)

The EEO data tase is designed to provide information on minority hiring practices in the maritime industry. It is updated as data are available to the Maritime Administration. Data elements include the MarAd ID number, the Standard Endustrial Classification code, the region location code, the parent or affiliate company code, and the total number of employees including minorities: male and female Negroes, male and female Orientals, male and female American Indians, and male and female Spanish surnamed Americans. The above categories are further subtotaled by the following major job categories: officials and managers, professionals, technicians, sales workers, office and clerical, crafts (skilled), operatives (semi-skilled), laborers (unskilled) and service workers.

Maritime Administration 14th and E Streets, NW Wasnington, D.C. 20230

50-005 HANDBOOK OF LABOR STATISTICS

The relevant sections in this annual publication include labor force characteristics, employment breakdowns by industry and state, average weekly earnings in each industry, and total earnings by industry type.

Department of Labor Bureau of Labor Statistics 441 G Street, NW Washington, D.C. 20212

Order from: GPO

50-006
THE LABOR MARKET OF THE U.S. SHIPBUILDING INDUSTRY (ANALYSIS)

This report presents a detailed analysis of the trends in the shipbuilding labor market for the past 20 years. It includes the following data tables: statistics on the market in government naval yards; the dollar value of ships under construction or newly contracted by type, 1953-1974; the distribution of shipbuilding construction by type and stage of production, 1955-1974; vessels under construction and newly contracted, 1977; average annual employment of production workers in shipbuilding and repairing; the percent of value added accruing to labor in shipbuilding, 1958-1972; the percentage distribution of employed males in selected industries; the percentage that blacks comprise of employed workers by occupation and region in shipbuilding, general construction and all industries; annual earnings in selected industries; separation and accession rates for selected industries; stayer and returnee rates; net gains and losses of male workers in the shipbuilding and repairing industries; and the geographical mobility of workers in shipbuilding.

For information, call the Special Collections Division (202) 767-7549.

J.C. Martin, Author George Washington University Graduate School of Arts and Sciences Washington, D.C. 20052 185 pp. January 16, 1978

Order from:
Special Collections Division
George Washington University Library
Washington, D.C. 20052
175

50-007 SEAMEN'S ANALYSIS (SEA)

This data base is updated annually. Its elements include seamen's ID number, rating held, licenses held, sign-on and discharge dates, union affiliation, and Merchant Marine Academy information.

Maritime Administration 14th and E Streets, NW Washington, D.C. 20230

50-008 SHIPYARD MANPOWER ANALYSIS (SMA)

This data base is updated on a quarterly basis and includes the following elements: badge number; name; social security number; race; sex; department; seniority; craft code; degree of skill code; pay rate; pay basis; date of birth; hire date; and yard seniority.

Maritime Administration 14th and E Streets, NW Washington, D.C. 20230

50-009 DECK AND ENGINE OFFICERS IN THE U.S. MERCHANT MARINE SUPPLY AND DEMAND, 1976-1985 (ANALYSIS, FORECAST)

The study is the fourth in a series to provide industry and government with information needed for effective manpower planning. The analysis covers the entire maritime industry, and supplies data on officer supply and demand for deepsea, Great Lakes, offshore oil exploration, coastal and ocean towing, inland waterways, and government employment.

Maritime Administration 14th and E Streets, NW Washington, D.C. 20230 94 pp. March 1977

Order from: MTIS, MA-GEN-510, March 1977

## SEE ALSO:

ANNUAL REPORT OF THE CHIEF OF ENGINEERS ON CIVIL WORKS ACTIVITIES 60-001

ANNUAL REPORT ON THE STATUS OF SHIPBUILDING AND SHIP REPAIR INDUSTRY OF THE U.S. (ANALYSIS) 20-018

CURRENT STATUS OF SHIPYARDS, 1974 (ANALYSIS, FORECAST) 20-008

ECONOMIC IMPACT OF THE U.S. PORT INDUSTRY: AN INPUT-OUTPUT ANALYSIS OF WATERBORNE TRANSPORTATION (ANALYSIS) 01-004 FINANCIAL AND STATISTICAL REPORT 40-056

INTERSTATE COMMERJE COMMISSION ANNUAL REPORT TO CONGRESS 40-010

MARAD (YEAR): ANNUAL REPORT OF THE MARITIME ADMINISTRATION FOR FISCAL YEAR (YEAR) (ANALYSIS) 20-010

MARITIME CONTRACT IMPACT SYSTEM (MCIS) 51-001

MERCHANT MARINE DATA SHEET 21-010

NAVAL SHIP PROCUREMENT PROCESS STUDY: FINAL REPORT (FORE-CAST) 30-001

RELATIVE COST OF SHIPBUILDING: REPORT TO THE CONGRESS ON THE RELATIVE COST OF SHIPBUILDING IN THE VARIOUS COASTAL DISTRICTS OF THE U.S. (ANALYSIS) 20-012

REPORT OF THE COMMISSION ON AMERICAN SHIFBUILDING, VOLUME II: THE REPORT (ANALYSIS, FORECAST) 20-016

SEA TECHNOLOGY HANDBOOK DIRECTORY 21-018

SEATRADE U.S. YEARBOOK 1979 40-069

STATISTICAL ABSTRACT OF THE U.S. 40-042

STATISTICAL QUARTERLY (FORECAST) 20-019

## 51 Labor and Management— Unions and Trade Associations

51-001
MARITIME CONTRACT IMPACT SYSTEM (MCIS)

The MCIS data base was established to provide the maritime industry with a tool for rapid evaluation of current and proposed seafaring labor contracts during the course of labor negotiations. It is used by the Office of Maritime Manpower, other components of MarAd, other government agencies, and consultants under contract to MarAd, as well as the maritime industry. It has the capability of selecting very general or very detailed data. The input is provided by the Office of Trade Studies and Statistics and by maritime labor unions and management associations. USCG manning data are used to verify the manning data supplied by industry. The major categories of input consist of shipboard ratings, wages, contributions to fringe plans, union management affiliations, manning, and ship characteristics. The principal subject matter covered is maritime seafaring collective bargaining agreements. Output pertains to personnel costs, fleet selection, fleet modification, and fleet characteristics. Lists of complete files or selected parts of any file can be generated in hardcopy via a time-sharing terminal in the conversational mode.

For information, call (202) 377-4640.

Maritime Administration Office of Maritime Manpower 14th & E Streets, NW Washington, D.C. 20230 51-002 AMERICAN SEAFARING UNIONS

AMO Associated Maritime Officers Division of MEBA 2 650 Fourth Avenue Brooklyn, New York 11232

ARA American Radio Association (AFL-CIO) 270 Madison Avenue New York, New York 10016 (212) 689-5754

Pacific District: 605 Market Street San Francisco, California 94111 (415) 495-6055

BMO Brotherhood of Marine Officers--NMU (AFL-CIO) 95 River Street - Room 207 Hoboken, New Jersey 07030 (201) 659-2015

Great Lakes and Rivers MMP District
Terminal Tower, Room 2420
540 Public Square
Cleveland, Ohio 44113 (216) 228-8111

GLS Great Lakes Seamen, Local 5000, United Steel Workers of America 1221 Superior Building 815 Superior Avenue, NE Cleveland, Ohio 44114 (216) 241-7407

IBU Inland Boatmen's Union
Headquarters
450 Harrison Street
San Francisco, California 94105 (415) 421-2364

IBU Inland Boatmen's Union SIU Atlantic, Gulf, Great Lakes Tug and Dredge and Railing Marine Region

Inland Boatmen's Union of the Pacific National Office & Puget Sound Region 77 Marion Street Viaduct Seattle, Washington 98104 (206) 622-9736

International Union of Operating Engineers 1125 17th Street, NW Washington, D.C. 20036 (202) 347-8560 Licensed Tugmen's and Pilots' Protective Association Navy Pier Chicago, Illinois 60611 (312) 374-2344

MCS Marine Cooks and Stewards Union 350 Fremont Street San Francisco, Callornia 94105 (415) 543-5855

MEBA Marine Engineers' Beneficial Association, National (AFL-CIO) 17 Battery Place New York, New York 10004 (212) 425-7280

Washington Office: 400 lst Street, NW Washington, D.C. 20001 (202) 347-8585

Pacific District: 340 Fremont Street San Francisco, California 94105 (415) 421-9620

MF" Marine Firemen's Union 240 Second Street San Francisco, California 94105 (415) 362-4592

MSO Marine Staff Officers, Office and Allied Personnel 450 Harrison Street San Francisco, California 94105 (415) 421-8603

MMP Masters, Mates and Pilots of America, International Organization of (AFL-CIO) International Offices:

39 Broadway
New York, New York 10006 (212, .25-3850

l California Street San Francisco, California 94111 (415) 781-3986

Pacific District:
P. O. Box 42367
San Francisco, California 94142 (415) 781-3986

NMU National Maritime Union of America (AFL-CIO) National Headquarters 346 West 17 Street New York, New York 10011 (212) 924-3900

Mational Maritime Union - San Francisco 91 Drumm Street San Francisco, California 94111 (415) 989-6905 ROU Radio Officers' Union of the United Telegraph Workers Union (AFL-CIO)
225 West 34 Street - Room 1315
New York, New York 10001 (212) 736-4695

Pacific District 1212 Broadway - Room 504 Oakland, California 94612 (415) 832-1339

SIUNA Seafarers International Union of North America (AFL-CIO) 675 Fourth Avenue Brooklyn, New York 11232 (212) 499-6600

Washington Office: 815 16th Street, NW Washington, D.C. 20006 (202) 347-3504

Atlantic and Gulf Districts: 675 Fourth Avenue Brooklyn, New York 11232 (212) 499-6600

Great Lakes District: 10225 W. Jefferson Avenue Detroit, Michigan 48218 (313) 843-4741

Pacific District: 1321 Mission Street San Francisco, California 94103 (415) 626-6793

SOA Staff Officers Association of America (AFL-CIO) 114 Liberty Street - Room 401 New York, New York 10006

SUP Sailors' Union of the Pacific 340 Harrison Street San Francisco, California 94105 (415) 362-8363

UMD United Marine Division - Local 333 (AFL-CIO) 17 Battery Place New York, New York 10004

51-003 AMERICAN LONGSHORE UNIONS

ILA International Longshoremen's Association (AFL-CIO)

17 Battery Place New York, New York 10004 (212) 425-1200

Washington Office: 724 14th Street, NW Washington, D.C. 20005 (202) 628-4546

Local 1814 343 Court Street Brooklyn, New York 11231 (212) 834-7800

ILWU International Longshoremen's and Warehousemen's Union

1188 Franklin Street San Francisco, California 94109

(415) 755-0533

Northern California Regional Office 150 Golden Gate Avenue San Francisco, California 94102 (415) 755-0533

Southern California Regional Office 5625 South Figueroa Street Los Angeles, California 90037 (213) 754-5594

Northwest Regional Office 405 NW 18th Avenue Portiand, Oregon 97209 (503) 223-\_955

Hawaii Office 451 Atkinson Drive Honolulu, Hawaii 96814

(808) 949-4161

Washington Office 417 4th Street, SE Washington, D.C. 20002 (202) 544-4441

51-004
AMERICAN SHIPYARD UNIONS

Industrial Union of Marine and Shipbuilding Workers of America (AFL-CIO) 1126 16th Street, NW Washington, D.C. 20036 (202) 223-0902

International Association of Machinists (AFL-CIO) 1300 Connecticut Avenue, NW Washington, D.C. 20036 (202) 857-5200

International Brotherhood of Boilermakers, Iron Shipbuilders, Blacksmiths, Forgers and Helpers (AFL-CIO) 8th and State Avenue Kansas City, Kansas 66101 (913) 371-2640

Washington Office: 400 First Street, NW Railway Building - Room 712 Washington, D.C. 20031

Pacific Coast Metal Trades District Council (AFL-CIO) Bay View Towers 22nd and Mission Streets San Francisco, California 94124

Boatbuilders and Marine Employees' Union (NMU, AFL-CIO) 91-31 Queens Boulevard Elmhurst, New York 11373

51-005 AMERICAN INDEPENDENT TANKER UNIONS

American Trading and Transportation Company, Incorporated American Tanker Officers' Association 555 Fifth Avenue New York, New York 10017 (212) 682-7722

Atlantic Richfield
Atlantic Maritime Officers' Association
Atlantic Maritime Employees' Union
260 South Broad Street
Philadelphia, Pennsylvania 19102 (215) 365-1448

Exxon
Esso Jersey Standard Tanker Officers' Association
Exxon Radio Officers' Association
Esso Seamen's Association
Exxon Stewards' Organization
P.O. Box 1512
Houston, Texas 77001 (713) 656-3636

Getty Oil (Eastern Operations)
Getty Tanker Officers' Association
Getty Tankermen's Association
Marine Section
P. O. Box 339
Delaware City, Delaware 19706

International Ocean Transport Corporation Deepwater Officers' Association 17 State Street New York, New York 10004

Mobil Oil
Mobil Tankers Officers' Association
Socony Mobil Boatmen's Union
Local 8-801, Oil, Chemical, and Atomic Workers
150 East 42nd Street
New York, New York 10007 (212) 883-4242

Sabine Transportation
Sabine Independent Officers' Association
Sabine Independent Seamen's Association
P.O. Box 1500
Port Arthur, Texas 77641

Sun Oil
Sun Marine Licensed Officers' Association
Sun Marine Employees' Association
1608 Walnut Street
Philadelphia, Pennsylvania 19103 (215) 972-2000

Texaco
Texas Tanker Officers' Association
Texas Radio Officers' Association
135 East 42nd Street
New York, New York 10017 (212) 953-6000

51-006 LABOR ORGANIZATIONS

American Federation of or and Congress of Industrial Organizations 815 16th Street, NW Washington, D.C. 20006 (202) 637-5000

AFL-CIO Maritime Committee 100 Indiana Avenue, NW Washington, D.C. 20001 (202) 347-5980

Maritime Trades Department (AFL-CIO) 815 16th Street, NW Washington, D.C. 20006

Metal Trades Department (AFL-CIC) 815 16th Street, NW Washington, D.C. 20006

New York City Central Labor Council (AFL-CIO) 386 Park Avenue South Rooms 601-607 New York, New York 10016 (212) 685-9552

51-007
MARINE INDUSTRY-RELATED ASSOCIATIONS

American Bureau of Shipping 42 Broad Street New York, New York 10004 (212) 785-9800

National Maritime Council P. O. Box 7345 Washington, D.C. 20044

Propeller Club of the United States National Headquarters 1730 M Street, NW - Suite 413 Washington, D.C. 20036 (202) 223-1401

The Council of American Master Mariner's Inc. 80 Broad Street - 34th Floor New York, New York 10004 (212) 248-5047

United Seamen's Service, Inc.
One World Trade Center
Suite 2601
New York, New York 10048 (212) 775-1033

51-008
MARITIME TRADE ASSOCIATIONS

American Institute of Merchant Shipping 1625 K Street, NW - Suite 1000 Washington, D.C. 20006 (202) 783-5440

American Association of Port Authorities 1612 K Street, NW Washington, D.C. 20006 (202) 331-1263

American Maritime Association 17 Battery Place North Room 944-952 New York, New York 10004 (212) 344-8177

Washington Office: 1612 K Street, NW Washington, D.C. 20006 (202) 331-1562

American Waterways Operators, Inc. 1600 Wilson Boulevard - Suite 1101 Arlington, Virginia 22209 (703) 841-9300

Boston Shipping Association, Incorporated 223 Louis Wharf Boston, Massachusetts (617) 523-3762

Council of North Atlantic Shipping Associations 80 Broad Street New York, New York 10004

Federation of American-Controlled Shipping 25 Broadway New York, New York 10004 (212) 344-1483

Washington Office: 916 16th Street, NW Washington, D.C. 20006 (202) 223-5080

Labor-Management Maritime Committee 100 Indiana Avenue, NW Washington, D.C. 20001 (202) 347-9771

Lake Carriers Association 1411 Rockefeller Building Cleveland, Ohio 44113 (216) 621-1207

Marine Towing and Transportation Employers Association 17 Battery Place - Room 1110
New York, New York 10004 (212) 344-9097

Maritime Association of the Port of New York 80 Broad Street

New York, New York 10004

(212) 425-5704

Maritime Service Committee 11 Broadway - Room 1712 New York, New York 10004

(212) 422-6545

Mobile Steamship Association Commerce Building Mobile, Alabama 36601

New Orleans Steamship Association 219 Carondelet Street

New Orleans, Louisiana 70130 (504) 522-9392

New York Shipping Association, Incorporated 80 Broad Street New York, New York 10004 (212) 747-3700

New York Tow Boat & Harbor Carriers Association 17 Battery Place - Room 1408 New York, New York 10004 (212) 943-8480

Pacific Maritime Association 635 Sacramento Street San Francisco, California 94111

Pacific Merchant Shipping Association 635 Sacramento Street San Francisco, California 94111 (415) 986-7900

Philadelphia Marine Trade Association Lafayette Building Philadelphia, Pennsylvania 19106 (215) 922-7540

Shipbuilders Council of America Watergate 600 Washington, D.C. 20037 (202) 338-7722

Steamship Trade Association of Baltimore, Inc. 32 South Street
Baltimore, Maryland 21202 (301) 752-4913

51-009
Tanker Service Committee, Inc.
11 Broadway - Room 1712
New York, New York 10004 (212) 422-6672

Transportation Institute 923 15th Street, NW Washington, D.C. 20005 (202) 347-2590

Seattle Office: Norton Building - Room 1502 801 2nd Avenue Seattle, Washington 98104 (206) 624-9824

51-010 SEAFARING ASSOCIATION

American Pilots Association 1055 Thomas Jefferson Street, NW Washington, D.C. 20006 (202) 333-9377

#### SEE ALSO:

DIRECTORY OF SHIPOWNERS, SHIPBUILDERS, AND MARINE ENGINEERS 21-002

EEC SHIPPING 1978: A GUIDE TO THE SEA TRANSPORT INDUSTRIES OF THE EUROPEAN ECONOMIC COMMUNITY (ANALYSIS, FORECAST) 21-012

THE LABOR MARKET OF THE U.S. SHIPBUILDING INDUSTRY (ANALYSIS) 50-006

RELATIVE COST OF SHIPBUILDING: REPORT TO THE CONGRESS ON THE RELATIVE COST OF SHIPBUILDING IN THE VARIOUS COASTAL DISTRICTS OF THE U.S. (ANALYSIS) 20-012

SEAMEN'S ANALYSIS (SEA) 50-007 SEATRADE U.S. YEARBOOK 1979 40-069

# 52 Labor and Management— Personnel Casualties

52-001 SAFETY INFORMATION

This annual report, published in newsletter form, contains a summary of marine transport fatalities, both commercial and recreational, for the relevant year and comparative statistics for preceding years.

National Transportation Safety Board 800 Independence Avenue, SW Washington, D.C. 20594

Order from: National Transportation Safety Board 800 Independence Avenue, SW Washington, D.C. 20594

52-002 STATISTICS OF CASUALTIES

This statistical summary is presented annually in the March issue of the Proceedings of the Marine Safety Council. The information provided covers all commercial vessel casualties that were investigated by Coast Guard marine inspectors during the previous fiscal year. Data include a summary of commercial vessel casualties, giving primary cause of the accident, type of vessel, GT, length, age, location of the casualty, time of day of the casualty, estimated dollar losses, number of vessels totally lost, the reason for the collision/explosion/grounding/foundering, the type of material failure, and estimated cargo damage; a summary of deaths/injuries due to a vessel casualty, including primary cause, type of vessel involved, particulars of the person deceased/injured, and part of the body involved; a summary of deaths on board commercial vessels not involving a vessel casualty, with the cause of death, type of vessel involved, time of day, particulars of the deceased, and part of the body involved, and a summary of personnel injuries on board all commercial vessels, giving the cause of injury, type of vessel involved, time of day, particulars of the person injured, and part of the body involved in the injury.

USCG, Marine Safety Council 400 7th Street, SW Washington, D.C. 20590

Order from: Commandant (G-CMC), U.S. Coast Guard 400 7th Street, SW Washington, D.C. 20590 52-003
MARINE INDEX BUREAU (MIB) CASUALTY DATA (ANALYSIS)

The MIB is the only commercial depository for illness and injury data for personnel of the U.S. merchant marine and affiliated industries. It assists member companies with statistical analyses for their accident and illness prevention and safety programs, and in complying with the law that imposes upon them the non-delegable duty of warranting the seaworthiness of each member of the crew. By reciprocal arrangement, Bureau members have the benefit of the records maintained by the Index System of the American Insurance Association, which covers all non-maritime claims throughout the country. Participants include all American flag steamship owners and operators, most operators on the Great Lakes and inland waterways, stevedores, shippards, the Military Sealift Command, MarAd, and others in offshore oil and affiliated industries. The cumulative data are stored on individual seafarers in a single record. The cost of maintaining the system is borne by member companies. The Bureau issues annual statistical analyses (including a list of the type of illness, the status of the seaman afflected, a tabulation of illness and injury incidence by age groups, and summaries of types of accidents) and a summary comparison of illnesses and injuries involving seagoing and longshore personnel. They also publish various cumulative reports. For example, Statistical Analysis 69 is a 27-year summary comparison of totals of percentages of illness and injuries reported to the bureau during 1951-1977. Statistical Analysis 70 is a 5-year comparative analysis of percentages of reports received by the bureau during 1973-1977 relating to seamen employed aboard oceangoing U.S.-flag ships and Navy contract tankers.

For information, call (212) 269-1200.

Marine Index Bureau 17 Battery Place New York, New York 10004 52-004 ACCIDENT FACTS

The annual edition contains data on injury rates for all industries. For the marine transportation industry in particular, it provides injury and severity rates, and the number of lost work days for river and other craft, government marine transport, and stevedoring. Comparisons to other industries are also given.

For information, call (312) 527-4800.

National Safety Council 444 North Michigan Avenue Chicago, Illinois 60611

Order from: National Safety Council 444 North Michigan Avenue Chicago, Illinois 60611

SEE ALSO:

COAST GUARD SEARCH AND RESCUE STATISTICS (ANALYSIS, FORECAST) 23-004
VESSEL CASUALTY DATA FILE (ANALYSIS) 23-017

## 53 Government Personnel

53-001
NAVY MILITARY PERSONNEL STATISTICS

Contained in these quarterly reports are statistics on personnel strengths, and accessions and attrition in the Navy and Naval Reserve forces. They include data in varying detail for officers and enlisted personnel by grade, sex, education, and occupational and command eligibility categories. The data are shown variously by month, cumulative for the fiscal year, and the final month of each quarter only.

Department of the Navy Washington, D.C.

Order from: GPO, NAVPERS 15658

53-002 U.S. NAVAL INSTITUTE PROCEEDINGS NAVAL REVIEW ISSUE

The Naval Review issue is published in May of each year. The annual features include the names, ranks, and positions of the flag and general officers of the Naval services, with a picture of each (officers of flag rank of the U.S. Navy, USCG, and NOAA, and general officers of the U.S. Marine Corps on active duty as of March 31); a description of naval and maritime events, July to December of the previous year; a summary of major military forces as of January 1; a naval forces summary as of February 1; a U.S. merchant marine summary as of January 1; the status and employment of U.S. privately-owned merchant shipping as of January 1; and the top 15 merchant fleets of the world arranged in order of the number of ships (of 1,000 GT and over) as of December 31.

U.S. Naval Institute
Annapolis, Maryland 21402

Order from: U.S. Naval Institute Annapolis, Maryland 21402

SEE ALSO:

DECK AND ENGINE OFFICERS IN THE U.S. MERCHANT MARINE SUPPLY AND DEMAND, 1976-1985 (ANALYSIS, FORECAST) 50-009 FINANCIAL AND STATISTICAL REPORT 40-056

# 60 Inland Waterways

60-001
ANNUAL REPORT OF THE CHIEF OF ENGINEERS ON CIVIL WORKS
ACTIVITIES

The annual report is in two volumes. Volume I contains a narrative description of Corps activities for the year of coverage and a composite record of civil works projects of the Corps Volume II describes all Corps projects for since the 1800s. the current year with supplementary tables on funding, authorization, costs, structural dimensions, and dates of completion or projected completion. Specific data presented in the report include: highlights of appropriations, waterborne commerce for the year (tons: imports, exports, and domestic); ton-mileage of freight carried on U.S. inland waterways by system; navigation projects, flood control projects, hydropower projects, and Mississippi River and tributaries projects under construction (location, date, and nature); project waterways commerce reported (tons and ton-miles by waterway, by state, and by harbor); and a listing of navigation locks and dams operable as of June 30.

U.S. Army Corps of Engineers Office of the Chief of Engineers Washington, D.C.

Order from: GPO, Item 334

60-002
WATER RESOURCES DEVELOPMENT BY THE U.S. ARMY CORPS OF ENGINEERS IN (NAME OF STATE)

The series of biennial state reports includes historical and current data, focusing on the period 1950s to the present, describing Corps water resources development projects in the fifty states, the District of Columbia, and outlying areas. They are revised in odd numbered years to reflect the most current data for each new Congress. Statistical information contained in the reports includes the dimensions of harbors and channels in the inland waterway system, and the cost of each construction.

U.S. Army Corps of Engineers Washington, D.C.

Order from: GPO, Item 334-A-6

60-003
PHYSICAL WATERWAY CHARACTERISTICS

This data base includes statistical profiles of locks, channels, and bridges on U.S. waterways. The data were compiled by U.S. Army Corps of Engineer districts from data in existing records and publications for the fiscal year 1975. There are 52 elements of lock characteristics, covering identification and location, pools, chambers. approaches, and operating times. The 31 channel characteristics include identification and location, general remarks, restricted navigation, standard low and high water data, channel maintenance, and structures and obstacles. Bridge characteristics are provided in 32 segments of data such as identification and location, general remarks, operational characteristics, channel, clearances, and restrictions on navigation. In 1979, five Engineer pamphlets will be published that will contain the 1975 data. Access will also be provided through the Corps' navigation computer data base. Revision procedures have been arranged, but revision frequency has not been decided.

U.S. Army Corps of Engineers Office of the Chief of Engineers Forrestal Building 1000 Independence Avenue, SW Washington, D.C. 20314

60-004 MONTHLY BULLETIN OF LAKE LEVELS FOR THE GREAT LAKES

Each monthly issue of the bulletin contains recorded and projected water levels for the previous year, current year-to-date and the next six months. Also included are levels of the current month and the same month for the preceding year.

U.S. Army Corps of Engineers North Central District 536 South Clark Street Chicago, Illinois 60605

Order from: GPO

The second secon

60-005 THE INLAND WATERWAYS OF THE U.S.

The AWO periodically reissues this two-color map showing the commercially navigable inland waterways of the U.S. It includes a table of authorized depths. There are 2 sizes available:  $11-1/2 \times 17-1/2$  inches and  $22 \times 34$  inches.

For information, call (703) 841-9300.

American Waterways Operators, Incorporated (AWO) 1600 Wilson Boulevard Arlington, Virginia 22209

Order from: American Waterways Operators, Incorporated 1600 Wilson Boulevard Arlington, Virginia 22209

60-006
NATIONAL WATERWAYS STUDY (ANALYSIS, FORECAST)

The Study, scheduled for completion in October 1980, will result in four major products: 1) a description of the nation's existing water transportation system, identifying the major physical and operational characteristics of U.S. waterways, ports and harbors, the major commodities being transported, and the types of carriers and shippers using these facilities; 2) an assessment of the water transportation system's capability to meet future needs, including the system's interrelationships with non-transportation needs such as flood control, irrigation, and recreation; 3) selection and analysis of alternative changes to the water transportation system; and 4) rec-The scope includes all U.S. waterommendations to Congress. ways and ports with waterborne commerce, both domestic and foreign; water transportation as one mode of transportation and as one part of water resource use; and projections through the year 2000. The first report is due to be published in early 1979.

For information, call (202) 325-7141.

U.S. Army Corps of Engineers Institute for Water Resources Kingman Building Fort Belvoir, Virginia 22060 60-007
BRIDGES OVER THE NAVIGABLE WATERS OF THE U.S.

In publication since 1935, this guide contains a list of bridges that span the navigable waterways of the U.S., along with complete information about each bridge. Part I covers the Gulf Coast and Mississippi River System, Part II the Great Lakes, and Part III the Atlantic and Pacific Coasts.

U.S. Coast Guard 400 7th Street, SW Washington, D.C. 20590

Order from: GPO

60-008
PERFORMANCE MONITORING SYSTEM (PMS)

The PMS data base was begun in 1975 to collect a one-hundred percent sample of information on the locks that are in operation on the U.S. inland waterways and the East Coast. Statistics are gathered for each transit through each lock and include lift at the lock, weather conditions at the time of transit, surface conditions, and the lockage log (vessel name and number, direction of transit, arrival time, start of lockage time, entry time, end of entry time, start of exit time, and end of lockage time). There is also a vessel log obtained from the vessel operator, that gives vessel type, characteristics of the vessel, and information on the commodity being moved through the lock. The data are forwarded to the district offices of the Army Corps of Engineers where they are checked for accuracy, processed, and stored in a central library of tapes. The library is currently being transferred to the Boeing Computer Service computers in Seattle, Washington. tapes will be able to be used directly on the PCS System, subject to Corps policy or can be copied to foreign tapes and mailed to the requestor. Hardcopy reports will be produced monthly and special runs may be performed for individual requests.

U.S. Army Corps of Engineers Engineer Data Processing Center Washington, D.C. 60-009
WATERWAY INVESTMENTS GUIDE: ARKANSAS, KANSAS, LOUISIANA, MISSOURI, AND OKLAHOMA

The Guide includes: systems maps for 4 major U.S. inland waterways; descriptions of 23 full-service port cities; site data on industrial parks fronting 2,500 miles of navigable streams; and listings for over 600 shipping and investment consultants and suppliers.

For information, call (501) 378-5905.

Ozarks Regional Commission Suite 109, Evergreen Place 1100 North University Avenue Little Rock, Arkansas 72207

60-010
INDIVIDUAL STATES: DEPARTMENTS OF TRANSPORTATION

State departments of transportation may provide information on commodity movements within and to and from the state; inland waterways commerce and transportation statistics; port and terminal information; and maritime-related data where applicable.

60-011 SEAWAY MARITIME DIRECTORY

The Directory emphasizes the geographic, economic, and commercial aspects of the Great Lakes and Seaway. Sections are devoted to the seaway terminals and container services that are involved in intermodal container cargo movement; general seaway information; and some 50 individual ports with technical information on the ports and lists of port service firms, including steamship lines.

For information, call (313) 779-5570.

Fourth Seacoast Publishing Company, Incorporated 24145 Little Mack St. Clair Shores, Michigan 48080

60-012
WATER CARRIERS AND INLAND WATERWAYS IN AGRICULTURAL TRANSPORTATION (ANALYSIS, FORECAST)

The report includes data on waterway capacity, barge capacity, towboat capacity and tow sizes, regulation, and pricing as they relate to agricultural transportation on inland waterways in the U.S. There is also information on agricultural traffic patterns for waterway systems, waterway policy issues, and a forecast of future agricultural transport needs.

F. D. Gaibler, Author
U.S. Department of Agriculture
Economic Research Service
Washington, D.C. 20250
35 pp. August 1977

Order from: GPO, 1977 241-445/ERS-174

60-013 WORLD DATA BANK II

Each of the five volumes of this digital representation of the world is a single magnetic tape comprising three different files with data on each region. File 1 is Coastlines, Islands, and Lakes, File 2, Rivers, and File 3, International Boundaries. A fourth file of internal boundaries delineates the U.S. and Canada. The tapes, which can be ordered in seven or nine track recording modes for one-half inch tape, come with a general user guide describing the physical format of the data, a breakdown of the data, and the FORTRAN program used to convert the It is available from NTIS as follows: 5 volume set (PB 271 874-SET/PSN \$675); Volume I, North America (PB 271 868/PSN \$250); Volume II, South America (PB 271 870/PSN \$125); Volume III, Europe (PB 271 871/PSN \$125); Volume IV, Africa (PB 271 872/PSN \$250); and Volume V, Asia (PB 271 873/PSN \$250).

National Technical Information Service 5285 Port Royal Road Springfield, Virginia 22161

Order from: NTIS

60-014
MAP OF THE MISSISSIPPI RIVER INLAND WATERWAYS AND PRINCIPAL WATERWAYS THROUGHOUT THE GULF COAST STATES

Updated periodically, the COE publishes this multi-colored map showing the commercially navigable waterways of the Central U.S. on the Mississippi River and the Gulf Coast. It is available in 3 sizes:  $32 \times 44$  inches,  $17 \times 34$  inches, and  $8 \times 10-1/2$  inches.

For information, call (312) 353-6430.

U.S. Army Corps of Engineers, Chicago District 219 South Dearborn Street Chicago, Illinois 60604

Order from: U.S. Army Engineer District, Chicago District 219 South Dearborn Street Chicago, Illinois 60604

60-015 INLAND RIVER RECORD

Established in 1945, the Record contains an annual listing of tugs, towboats, and passenger vessels operating on the Mississippi River System and Gulf Intracoastal Weterway and tributaries. The alphabetically arranged descriptive list of vessels includes such details as vessel name and type, propulsion type, year built, builder's name and address, current operator's name and address, and previous owner's name and address, if applicable. Also presented is a list of owners, operators, and service organizations that are involved in inland waterways transportation with their addresses and the names of the vessels that they operate.

The Waterways Journal, Incorporated 319 North 4th Street St. Louis, Missouri 63102

Order from: Inland River Record 319 North 4th Street 666 Security Building St. Louis, Missouri 63102 60-016 INLAND RIVER GUIDE

The annual directory contains data on barge and towing companies; a list of terminals by river location, with an alphabetical cross-reference for public terminals and a list of public and private terminals; fleeting and harbor services listed by river location; shipyards/repair services listed by river location with an alphabetical cross-reference; contractors and dredging firms; midstreamers listed by river location; equipment and freight brokers, marine surveyors, professional services, marine divers, salvage firms, marine insurance companies, and marine schools; distributors and manufacturers; government agencies and associations; marine radio stations; bridge clearances; and lock statistics.

The Waterways Journal, Incorporated 319 North 4th Street St. Louis, Missour! 63102

Order from: The Waterways Journal, Incorporated 319 North 4th Street St. Louis, Missouri 63102

60-017
WATER LEVELS: GREAT LAKES AND CONNECTING CHANNELS

Published semi-monthly, the reports contain the recorded and expected levels of the Great Lakes and connecting channels, with actual data for the 5th or 20th day of the month of coverage during navigation season and projections for the 5th or 20th day of the next month. Levels are given for each lake and for 18 points along four rivers of connecting channels.

U.S. Army Corps of Engineers Washington, D. C.

Order from: GPO

#### SEE ALSO:

ANNUAL REPORT OF THE LAKE CARRIERS' ASSOCIATION (ANALYSIS) 40-058 COAST GUARD LIGHT LIST 31-009 DIRECTORY OF RIVER BARGE SHIPPING POINTS DOMESTIC TRADE SYSTEM 40-036 DOMESTIC WATERBORNE SHIPPING MARKET ANALYSIS: EXECUTIVE SUMMARY (ANALYSIS, FORECAST) 40-066 DOMESTIC WATERBORNE TRADE OF THE U.S. (1972-1976) EVALUATION OF MARITIME INDUSTRY ENERGY CONSUMPTION PROFILES (ANALYSIS) 10-008 GREAT LAKES RED BOOK 21-059 GREENWOOD'S GUIDE TO GREAT LAKES SHIPPING 21-060 40-037 INLAND WATERBORNE COMMERCE STATISTICS INTERSTATE COMMERCE COMMISSION ANNUAL REPORT TO CONGRESS 40-010 NATIONAL TRANSPORTATION TRENDS AND CHOICES (TO THE YEAR 2000) (ANALYSIS, FORECAST) 40-063 ONGOING SURVEY OF GRAIN FLOWS, 1977 40-022 RIVER POINT DIRECTORY FOR THE MISSISSIPPI RIVER-GULF COAST INLAND WATERWAYS SYSTEM 01-027 TRAFFIC REPORT OF THE SAINT LAWRENCE SEAWAY (ANALYSIS) 40-054 TRANSPORTATION LINES OF THE GREAT LAKES SYSTEM 21-020 TRANSPORTATION SERIES FILE 21-063 WATERBORNE COMMERCE OF THE U.S. (ANALYSIS) 40-050 WATERBORNE COMMERCE STATISTICS CENTER 40-014 WATERWAY POINT DIRECTORY FOR THE GREAT LAKES, ATLANTIC, AND PACIFIC AREAS 01-028 WATERWAYS, HARBORS, AND COASTAL ENGINEERING 01-023

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CONTAINERISATION INTERNATIONAL YEARBOOK WORLD MAP OF CONTAINER ROUTES, SERVICES, AND OPERATORS 40-035

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